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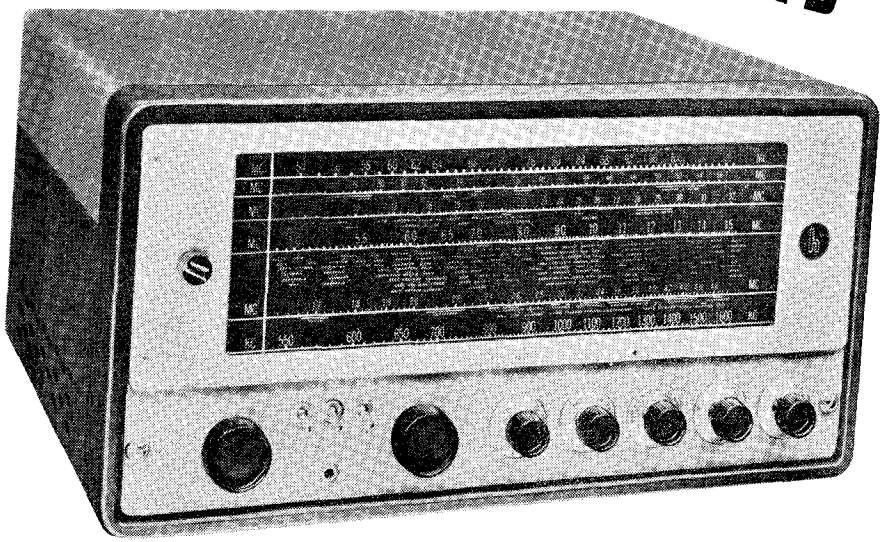

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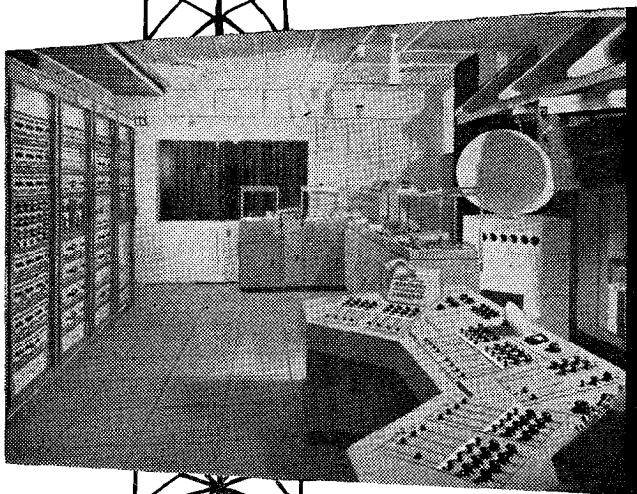

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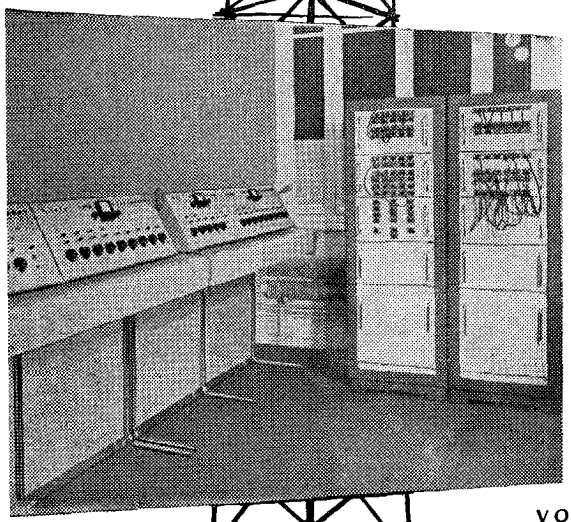

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WORLD RADIO TV HANDBOOK

BROADCASTING-TELEVISION 1961

including World-wide Radio WHO's WHO

Fifteenth Edition

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Lindorffsalle 1 . Hellerup . Copenhagen . Denmark

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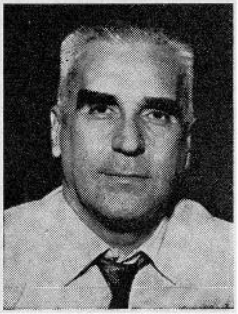
PREFACES

With this edition World Radio TV Handbook celebrates its 15th jubilee. During this period the purpose of this publication has been "The promotion of understanding between the peoples of the world". The various prefaces in this and earlier editions and the laudatory statements that have been received on the occasion of this 15th anniversary from practically all broadcasting organisations, irrespective of politics, race and religion, reproduced in a special pamphlet, cause me to hope that WRH has fulfilled its task and served its purpose in a satisfactory manner. My hearty thanks are due to radio and television organisations and to radio clubs and listeners all over the world, whose interest and assistance have been of the utmost value. Finally, my sincere thanks are also due to WRH's many advertisers and collaborators for their confidence and support. This international cooperation. upon which the existence of WRH depends, will, I thrust, continue on into the future.

O. Lund Johansen.

THE "GOLDEN AGE" OF COMMINICATIONS



Dr. HERNANE TAVARES de SA

In the year gone by, there has been hardly a week without word of some new technical achievement, sometimes of startling magnitude. We have been permitted to see the hidden face of the moon; we have spoken to a mechanism in space and have made it reply across millions of miles; men and women have watched at home the faces of two dogs in orbit around the earth; words and music have bounced from continent to continent by way of a man-made sphere in the sky.

On the ground there has been constant (if less spectacular) progress. Television has reached out to new millions, sound radio speaks to increasing populations through the wider availability of the transistor portable receiver. To these processes, the WORLD RADIO TELEVISION HANDBOOK remains a constant and invaluable guide.

We are in what could be called 'the golden age' of communications, a time when the word and the image can be thrown from continent to continent with an ease unimagined not so long ago. Our tools have been sharpened to new degrees of effectiveness and sophistication.

But how do we use them?

What is it that we choose to say to one another, with the help of the new marvels? With all the power of communications at our command, do we really communicate? This is a sobering process, this turning of the attention from the way to the word, from the means to the end. Yet it is necessary. For it reveals at once the poverty of what we communicate compared with the wealth of our technique. It is only when we begin to tackle this question of aims and purposes with the vigour we have up to now spent on technology that the world will make a significant stride towards a more worthy destiny.

Dr. Hernane Tavares de Sa
Under-Secretary for the Office of
Public Information, UNITED NATIONS

THE EUROPEAN BROADCASTING UNION AND INTERNATIONAL COOPERATION

C. GILLIERON

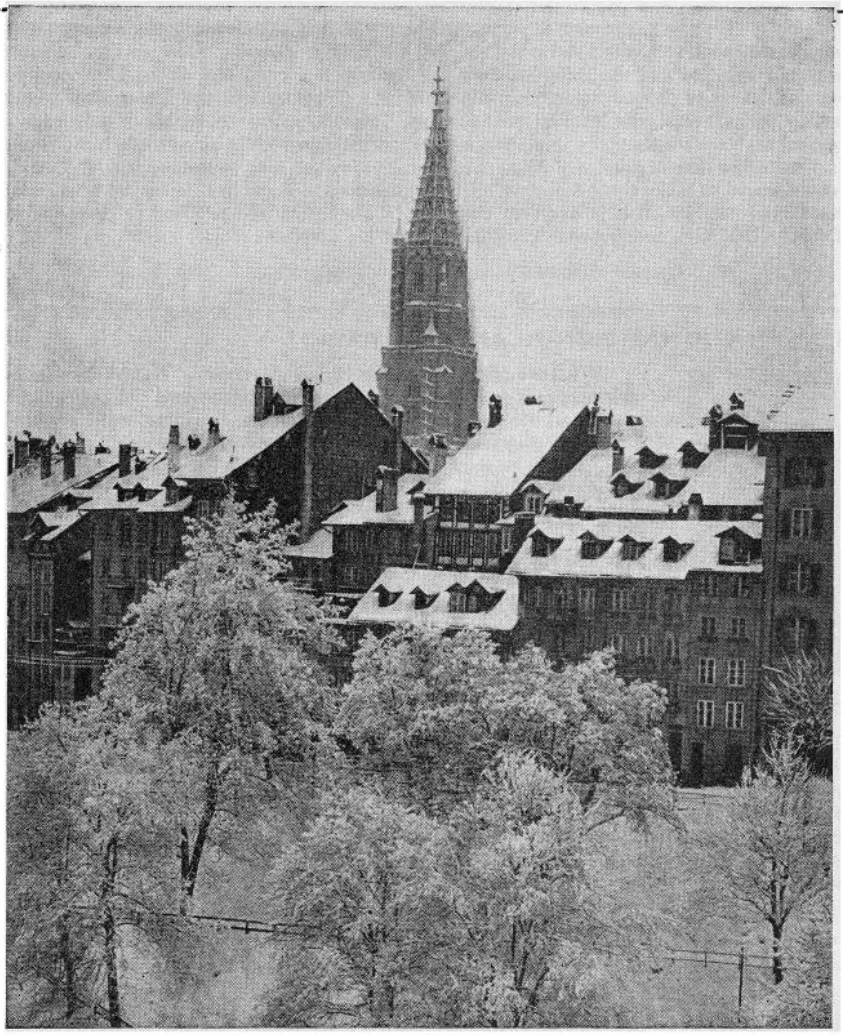
With the development of each new technique for the transmission of thought, whether it be printing, the cinema, radio or television, the public wonders if this new means of communication between men will be of service to humanity and whether it will procure a better future or fresh evils.

These techniques will be whatever those responsible for them make of them. By its very nature, the medium of the Hertzian wave radio is essentially international. Since its birth radiophony has demonstrated the need for real international cooperation, and as early as 1924 the International Broadcasting Union was created in Geneva. In 1950, it was succeeded, in part, by the European Broadcasting Union, which is concerned with both radio and television. This is a professional organisation of broadcasting services of countries fulfilling certain statutory conditions who wish to work together towards the development of broadcasting and international understanding from the technical, legal and programme points of view.

The EBU lends its good offices to the settlement of difficulties at international level, the elimination of obstacles from the exchange of programme material, the development of technical studies and the centralisation of information and documentation on legal questions; it has an ever-increasing part to play in the production of programmes which, in one way or another, serve the cause of international understanding.

In this field Eurovision, created five years ago by the EBU, has already exchanged more than 1000 programmes, of a duration of 1320 hours, produced by members of the Union. Apart from objective information, news and sport, great importance is given to exchanges of a cultural nature and to broadcasts for children and young people.

Berne Cathedral in Winter



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(for full details se page 102)

The Union is also the supporter of numerous activities and manifestations inherent in international life. In this respect we should mention United Nations Day, Red Cross Day, World Children's Day instituted by the International Union for Child Welfare and the different forms of exchanges arising out of the EBU's cooperation with UNESCO, the International Labour Organization, the World Health Organization, the International University of the Air, the International Music Council, the International Film and Television Council, to quote only a few.

In conclusion, if we consider the importance of broadcasting which is being introduced into every home, we cannot but pay tribute to the men of good will who are responsible for this new technique and who work day after day throughout the whole world to make their different cultures better known and in this way to bring about a greater understanding between the peoples. This is the role that Mr. O. Lund-Johansen adopted 15 years ago in editing THE WORLD RADIO TV HANDBOOK, and we wish to thank him for his excellent work.

C. Gillieron
Director, European Broadcasting Union

"THE INTERNATIONAL SIGNIFICANCE OF RADIO"

REX KEATING

With the celebration of its 15th Anniversary, "THE WORLD RADIO TV HANDBOOK" now occupies a significant place in the international field of radio:

Of all the mass communication media, broadcasting is probably the most persuasive, unsurpassed in speed, range and economy. Unfortunately many obstacles prevent it being fully used to promote the free flow of ideas between countries. In world terms there are today some 9000 broadcasting stations and 335 million radio receivers, yet no less than two-thirds of these are concentrated in Europe and North America. In Asia and Africa there is also an acute shortage of efficient receivers to pick up even local broadcasts and it is estimated that to provide each family in these areas with a radio set would demand no less than 350 million additional receivers. An important step in the solution of this problem has been taken by UNESCO in arranging with the International Telecommunications Union for a study of low-cost radio receivers – their design and large-scale production.

In a rapidly shrinking world there is an urgent and everincreasing demand for a closer mutual understanding amongst men and women of all nations. The mutual appreciation of the cultural values of Orient and Occident, for example, is a major preocccupation of UNESCO and the role which radio can play in furthering this ideal is of the utmost significance. Despite differences in style and presentation, techniques, language, etc. considerable success has been achieved in the exchange of programmes and of producers.

Something else with which UNESCO is very much concerned is the quality of the intellectual contribution of those who work in the mass media. More important even than the acquisition of new techniques and skills is the appreciation of the personal responsibility which the radio producer should feel towards the community in which he lives and of which he is a servant. For, in using broadcasting, he is employing one of the most powerful instruments of mass communication, a force which should be used, always, for constructive ends and to uphold the dignity of man.

Rex Keating
Acting Head, Radio Section UNESCO

POUL FONTAINA
President

ASOCIACION INTERAMERICANA DE RADIODIPISION (AIR), URUGUAY

WRH fulfils to a high degree a mission in the radio world. The amalgamation of joint American private transmitters (AIR) sets great store on the practical and valuable service rendered by WRH both in regard to those engaged in broadcasting and those who wish to be informed of world events, – WRH's value as a means of promoting understanding between the peoples of the world is incontestable and will inspire radio peoples to surpass each other.

Poul Fontaina
President

INTERNATIONAL TELECOMMUNICATIONS UNION – GENEVE

May we offer you our hearty congratulations for the fifteenth anniversary of your excellent publication. We have always admired the care with which it is edited and consider that it must prove invaluable to all who consult it. In fact, we often do so ourselves. Whenever occasion offers, we make a point of bringing the existence of this handbook to our correspondents. We do so in the belief that your handbook is a valuable medium for the promotion of international understanding.

C. Stead Counsellor.

DEUTSCHE WELLE

Kurzwellendienst der Arbeitsgemeinschaft der öffentlich-rechtlichen Rundfunkanstalten der Bundesrepublik Deutschland

---

»Hier ist die Deutsche Welle«
»This is the Voice of Germany« – »Ici la Voix de l'Allemagne«
»Habla la Vox de Alemania« – Esta é a Voz da Alemanha

Two different programmes are beamed to:

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WEST AFRICA . SOUTH AMERICA . CENTRAL AMERICA
NORTH AMERICA EAST and NORTH AMERICA WEST

GERMAN LANGUAGE COURSES
NEWS IN 5 LANGUAGES
ARABIC SERVICE

Programme suggestions and reception reports are very much welcomed, letters should be addressed to

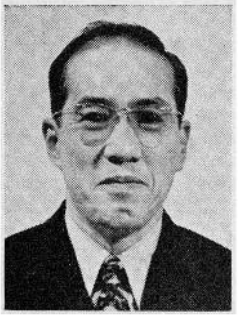
DEUTSCHE WELLE – KÖLN

Funkhaus, Wallrafplatz, Germany
Postbox 344

Detailed reports are answered by QSL card

Please refer to GERMANY for details

THE INTERNATIONAL SITUATION CALLS FOR GREATER UNDERSTANDING AND FRIENDSHIP



SEIKI SAKIYAMA

It is a great honour and pleasure for me to extend my sincere felicitations to you on the occasion of the 15th anniversary edition of your "WORLD RADIO TV HANDBOOK" which contains all the facts concerning radio and TV broadcasting stations of the world as well as related international organizations.

There is no need to dwell upon the great cultural significance of radio and television in this age of powerful mass communication.

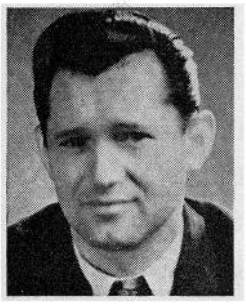
Especially, under the present international political situation, which calls for greater understanding and friendships among world nations, the importance of radio and television has markedly increased.

We believe that your publication, providing a bird's-eye-view of the world radio and TV organizations, has made remarkable contributions towards the promotion of the beneficial functions of radio and television.

We ardently hope that your organization will prosper and will make further contributions to the cultural exchanges and mutual understanding among the nations of the world.

Seiki Sakiyama, Secretary General
The Third Asian Broadcasters' Conference

RADIOMEN OF VARIOUS COUNTRIES SHOULD MEET EACH OTHER



KAREL HOFFMANN

Since the last days of the Nazi occupation of Czechoslovakia were over in 1945, when broadcasting played an important role in the rising of the people, Czechoslovak Radio has become a significant element in helping to organize new life.

Radio informs the widest public of both home and foreign affairs and prepares many popular scientific, music and sports programs as well as such for children and youth, and also other broadcasts of an educational and entertaining character.

Informative, literary, musical and other programs give listeners a picture of the life and culture in foreign countries. Czechoslovak Radio develops these activities in the spirit of peaceful co-existence and mutual understanding among the nations of various countries, regardless of their social setting.

Almost a quarter of a milion letters sent in by Czechoslovak listeners and more than one hundred thousand letters received from listeners of 67 foreign countries give evidence that Czechoslovak Radio is solving its task with success: to provide listeners, with true and up-to-date information and with entertainment and education alike.

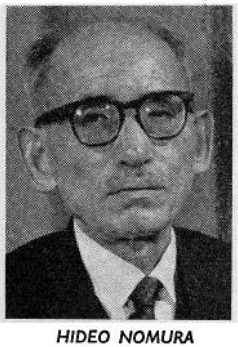
We are also engaged in an effort to develop mutual program exchange and other means of co-operation with broadcasting organisations the world over. This is being done with particular success in the field of music. For example radio organisations of 33 countries from all continents have asked for tape recordings and direct relays of this year's International Music Festival »Prague Spring«.

We were and we still are of opinion that radiomen of various countries should meet each other in order to bring the life and culture of other lands nearer to their listeners, thus helping in getting the nations closer together. Therefore our Radio takes an active part in the activities of various international organisations, participates in the International Radio University and exchanges delegations and staff groups with 45 foreign broadcasting organisations. With a number of them we have mutual agreements of mutual collaboration.

THE WORLD RADIO HANDBOOK greatly helps in developing this collaboration and mutual friendly relations of sound and television broadcasters throughout the world. On the occasion of its 15th anniversary we wish it much success in the fulfilment of this noble task.

Karel Hoffmann, Director General of Ceskoslovenský rozhlas

THE PEACE OF WORLD WILL BE ATTAINED THROUGH INTERNATIONAL UNDERSTANDING



HIDEO NOMURA

On this occasion we extend our hearty congratulations to Mr. O. Lund Johansen on the publication of the fifteenth edition of WORLD RADIO TV HANDBOOK.

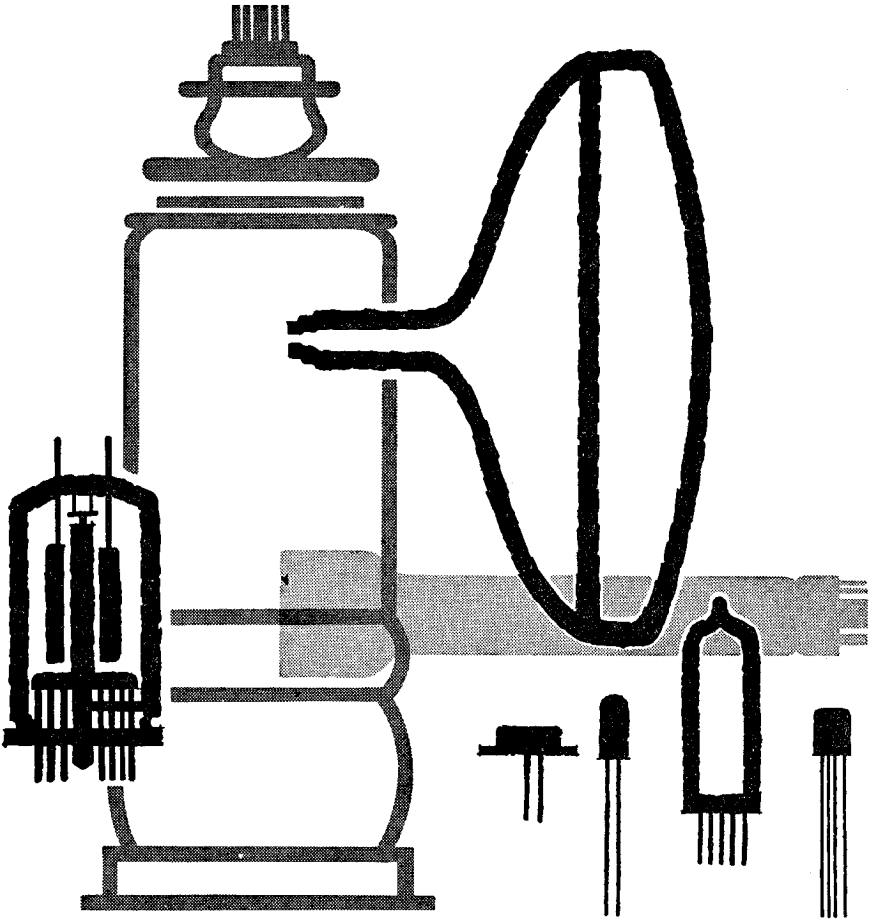
The peace of the world, in our opinion, will be attained through international understanding, and, in this sense, the NHK's International Broadcasting Programs are extensively broadcasted to every corner of the world.

And it is a matter of congratulation that more cooperation in the production and exchange of programs is actively done now between broadcasting-stations in different countries. The broadcasting business plays a vital role in the establishment of a lasting peace on the earth, and, for this lofty goal, we should listen more to the radio.

For the accurate, quicker radio and television reception everywhere, WORLD RADIO HANDBOOK furnishes us with all necessary information. We sincerely hope that this book may find many more friends of radio and television in every country and that it will attain higher success in years to come.

Hideo Nomura, President
NIPPON HOSO KYOKAI
(Japan Broadcasting Corporation)

PHILIPS for advanced design



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BROADCASTING AND TELEVISION ORGANIZATIONS

Sir Ian Jacob, G.B.E., C.B., President

EUROPEAN BROADCASTING UNION (E.B.U.) UNION EUROPEENNE DE RADIODIFFUSION (U.E.R.) EUROVISION

Seat and Administrative Office: 1, rue de Varembé, GENEVE.
Technical Centre: 32, av. Albert Lancaster, BRUXELLES.
Monitoring Centre: Jurbise (Belgium).
International Coordination Centre for TV/Programmes exchanges (Eurovision): Palais de Justice, Bruxelles.
Administrative Council
President: Sir. Ian Jacob, G.B.E., C.B., former Director General, The British Broadcasting Corporation. Vice-President: E. Sundström (Finland). – **Administrators:** Representatives of the broadcasting organizations in: Austria, Denmark, Finland, France, Germany (Fed. Rep.), Italy, Belgium, Switzerland and United Kingdom.
Director of the Administrative Office and Secretary General: M. Ch. Gilliéron.
Director of The Technical Centre: M. Georges Hansen.
Active Members: The broadcasting organizations of :Austria, Belgium, Denmark, Finland, France, Germany (Bundesrepublik), Greece, Iceland, Israel, Ireland, Lebanon, Luxembourg, Mali (Rep. of), Monaco, Morocco, Tunesia, Norway, Netherlands, Portugal (ENR, RTP), Spain, Sweden, Switzerland, Turkey, United Kingdom (British Broadcasting Corporation, ITA and Independent Television Companies Association Ltd.), Vatican City, Yugoslavia.
Associate Members: The broadcasting organizations of: Australia (ABC), Burma, Canada (CBC), Ceylon, Ghana, Haiti, Japan, New Zealand, Pakistan, Union of South Africa, United States (US Information Agency, N.A.E.B., C.B.S., N.B.C., A.B.C., Broadcasting Foundation of America and N.E.T.R.C.).
Publications: E.B.U. Review – every month in English and French, published in two separate parts: A (Technical) and B (General and Legal). – Long and Medium waves reports (European Area). – Short wave reports.

Petro Kito. Chairman of the OIRT Administrative Council.

INTERNATIONAL RADIO AND TELEVISION ORGANIZATION – OIRT

Addr.: 15, Liebknechtova, Prague 16, Czechoslovakia. **Cable:** Interadif, Praha.
Nature: International organization dealing with practical and theoretical questions connected with broadcasting and television prgr's and technique and co-operation between broadcasting and television organizations.
Governing Body: General Assembly consisting of one representative for each active member.
Administrative Council: Consisting of 7 to 13 members, Chairman for 1959/60: P. Kito, President of the Albanian Broadcasting Organization.
Vice-Chairmen for 1959/60: Representatives of the Radio and Television Organizations of the Byelorussian SSR and the Chinese P.R.
Members: Representatives of the Radio and Television Organizations of the P.R. of Bulgaria, Czechoslovak Republic, Hungarian P. R., PDR of Korea, and USSR.
MEMBERS: Radio and Television Organizations of: The PR of Albania, Byelorussian SSR, PR of Bulgaria, Chinese PR, Czechoslovak Republic, United Arab Republik/Egypt/, Estonian SSR, Finland, German Democratic Republic, Hungarian PR, Iraq, Korean People's Democratic Republic, Latvian SSR, Lithuanian SSR, Moldavian SSR, PR of Mongolia, PR of Poland, Rumanian PR, Ukrainian SSR, Union of Soviet Socialist Republics, PDR of Vietnam.
Facilities: Administrative Office and Technical Centre, Prague, Czechoslovakia.
Specialized Commissions: Technical Commission: Chairman A. V. Ivanov, USSR; Programme Commission: Chairman H. Werner, Polish P.R.; Television Commission: Chairman H. Adameck, German Democratic Republic.
Publications: Review of the International Radio and Television Organization (OIRT) "Radio Television" in English, French, Russian and Chinese, issued every two month. Technical documentation and List of Broadcasting and Television stations in operation. Monthly OIRT Information, and quarterly Catalogues of prgr's suitable for exchange: a) radio, b) television.
Meetings: General Assembly every two years, Administrative Council every one year.
Relations with all important organizations active in the field of radio and television.

Tor Gjesdal, Director of the Dept. of Mass Communication

UNESCO
(United Nations Educational, Scientific and Cultural Organization).

RADIO AND VISUAL INFORMATION DIVISION, DEPARTMENT OF MASS COMMUNICATION

Chief: Jean A. Keim.
Head of English Production: Rex Keating.
Head of French Production: Unfilled.
Head of Spanish Production: José Garza y de Garate.

ASOCIACION INTERAMERICANA DE RADIODIFUSION (AIR):

AIR is an association of the broadcasting corporations of the American countries. Founded in 1946 it represents more than 4000 broadcasting and 400 television stations. Its purpose is to preserve free and stable broadcasting, promote cooperation between broadcasting corporations and the public authorities, to raise the cultural level of the peoples, to work for the preservation of freedom of utterance and instruction and a closer feeling of association between the private broadcasting corporations on the American Continent. AIR has energetically represented to the Argentine Government that all transmitters be immediately returned to private ownership. AIR has agreed with Sociedad Interamericana de Prensa about the revision of the so-called Panama Doctrine for the purpose of increasing the practical effectiveness of that pact and of making it a permanent means of defence for the preservation of democratic principle. AIR is recognized by the United Nations ond collaborates with UNESCO, with the International Union of Telecommunications, with the organizations of the American States. AIR has subscribed to the "Panama Doctrine" in which the American Radio and Press declare themselves united against any attack on individual liberty and any restriction of the freedom of utterance. During the current year the institution has had intensive activity in defense of freedom of information in connection with events occurring in several countries.

AIR's President is the Uruguayan Broadcaster Sr. Raúl Fontaina, Mercedes 973, Montevideo, Uruguay. Vice Pres's: Lic. J. L. Fernandez (Avda Chapultepec 18, Mexico D. F.); F. Eleta (Apdo 1795, Panama), Secr.: R. Trabanino (5 Calle Poniente 9, San Salvador) – **Central Office, Dir. Gen.:** Manuel Caballero Ferreira, Av. Uruguay 1031, Esc. 2, Montevideo. **Cable:** IAAB, Montevideo.

ASIAN BROADCASTERS UNION

At the Third Asian Broadcasters' Conference, held in Tokyo for three days beginning on May 1960, lively discussions arose on the possibility of the establishment of an **Asian Broadcasters' Union.** However, a definite conclusion was not reached at the Conference, and, therefore, at present an Asian Broadcasters' Union has not yet entered the stage of formal organization.
The Conference, whose Secretary General was Seiki Sakiyama, Nippon Hoso Kyokai (The Japan Broadcasting Corporation), was attended by delegates from 15 countries (Afghanistan, Ceylon, Taiwan, India, Indonesia, Iran, Israel, Japan, Laos, Malaya, Pakistan, the Philippines, Thailand, Turkey and Vietnam) and an observer representing the United Nations and UNESCO. More than 40 proposals were submitted to the Conference for deliberation. It was also decided that the fourth Asian Broadcasters' Conference will be held next year in Kuala

GATES

BROADCASTING EQUIPMENT

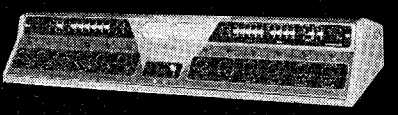
GATES is the largest supplier of AM radio broadcasting equipment in the U.S.A. The prime reason for GATES' popularity everywhere is that while maintaining the highest standards of Quality, GATES equipment is always competitively priced — and equally important — costs less to install and operate. Why not write today for descriptive literature and engineering data on this modern GATES equipment.

● All GATES Transmitters are now greatly reduced in size due to the introduction of SILICON DRY RECTIFIERS replacing the old High and Low Voltage Rectifier Tubes. In addition to the size advantage, these Rectifiers provide almost unlimited life and assure rugged, dependable performance in all climates of the world.

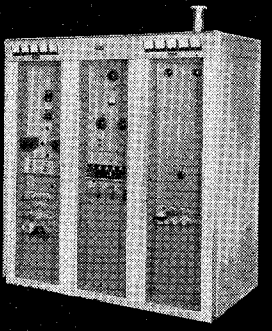
● A full line of AM Broadcasting Transmitters including 250 watt, 500 watt, 1 KW, 5 KW, 10 KW, 20 KW, 50 KW and 100 KW. Also FM Broadcasting Transmitters including 10 watt, 50 watt, 250 watt, 1 KW, 5 KW and 10 KW. A complete line of Shortwave Broadcasting Transmitters: 1 KW, 5 KW, 10 KW, 20 KW, 50 KW and 100 KW.

● Complete Television Systems, using 100 watt, 500 watt, 5 KW and 10 KW Transmitters for both FCC and CCIR standards.

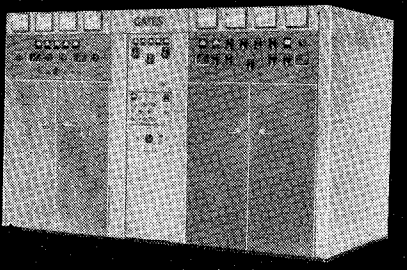
● Speech Input Equipment • Transmitter Control Consoles Master Control Consoles • Speech Input Consoles Plug-In Preamplifiers • General Purpose Consoles Transcription Turntables • Mobile Sound Effects Console Automatic Programming Equipment • Remote Amplifier Equipment • Directional Phasing Equipment Oscillators • Remote Control Equipment.



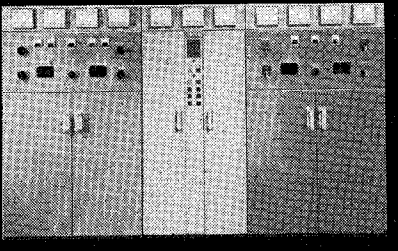
Dual Channel Console.



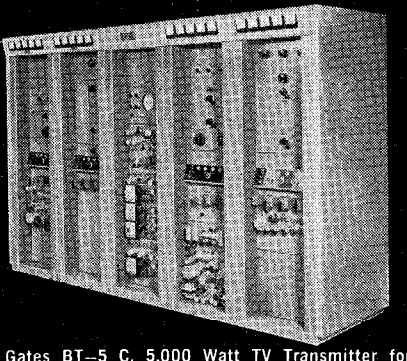
Gates FM–10A, 10,000 Watt FM Broadcast Transmitter.



Gates HF–50 C, 50,000 Watt High Frequency Broadcast Transmitter.



Gates BC–50 C, 50,000 Watt AM Broadcast Transmitter.



Gates BT–5 C, 5,000 Watt TV Transmitter for both color and monochrome transmission.

GATES RADIO COMPANY

Export Sales

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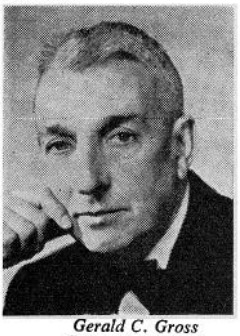
Cables: ARLAB

Lumpur, Malaya. In the field of programs, resolutions calling for the holding of the "Asian Musical Festival" through the exchange of recordings and, also for the exchange of news among Asian broadcasters were adopted.

INTERNATIONAL TELECOMMUNICATION UNION



Gerald C. Gross
Secretary General

Addr.: Palais Wilson, Geneva, Switzerland. Te.: 32-67-10.

Secretary General: Gerald C. Gross.

International Frequency Registration Board (IFRB): Chairman: J. A. Gracie (United Kingdom), Vice Chairman: R. Petit (France).

International Tel. & Tel. Consultative Committee (CCITT): Dir. J. Rouvière.

International Radio Consultative Committee (CCIR): Dir.: Dr. E. Metzler.

Study Group X (Broadcasting): International Chairman: A. P. Walker, NAB.

Study Group XI (television): Intern. Chairman: E. Esping, Board of Swedish Telecommunications, Stockholm. **Study Group XII (tropical broadc.):** Intern. Chairman: A. C. Ramchamdani, India.

Administrative Council: Argentina, Australia, Brazil, Canada, China, Colombia, Czechoslovakia, Ethiopia, France, Germany (Fed. Rep. of), India, Iran, Italy, Japan, Mexico, Morocco, Philippines, Switzerland, Tunisia, United Arab. Repub., United Kingdom, United States, USSR, Yugoslavia.

Membership: Afghanistan, Albania, Argentina, Australia, Austria, Belgium, Bielorussian (Soviet) Republic, Bolivia, Brazil, Bulgaria, Burma, Cambodia, Canada, Ceylon, Chile, China, Colombia, Congo (Republic of), Costa Rica, Cuba, Czechoslovakia, Denmark, Dominican Republic, Ecuador, El Salvador, Ethiopia, Finland, France, Germany (Federal Republic of), Ghana, Greece, Guatemala, Guinea, Haiti, Honduras, Hungary, Iceland, India, Indonesia, Iran, Iraq, Ireland, Israel, Italy, Japan, Jordan, Korea, Kuwait, Laos, Lebanon, Liberia, Libya, Luxembourg, Malaya, Mexico, Monaco, Morocco, Nepal, Netherlands (Kingdom of the), New Zealand, Nicaragua, Norway, Overseas States of the French community and French Overseas Territories, Pakistan, Panama, Paraguay, Peru, Philippines, Poland, Portugal, Portuguese Overseas provinces, Rhodesia & Nyasaland, Roumania, Saudi Arabia, Spain, Spanish provinces in Africa, Sudan, Sweden, Switzerland, Thailand, Tunisia, Turkey, Ukraine (Soviet), Union of South Africa & Territory (SW Africa), USSR, United Arab Republic, United Kingdom (Great Britain & No. Ireland), United Kingdom (Overseas Terr's.), United States, U.S. Territories, Uruguay, Vatican, Venezuela, Viet-Nam, Yemen, Yugoslavia.

Associate Members: Bermuda-British Caribbean Group, British East Africa, British West Africa, Singapore-British Borneo Group.

BROADCASTING FOUNDATION OF AMERICA

The Broadcasting Foundation of America is organised as an educational corporation and is also the international division of the National Educational Television and Radio Center. Its object is to foment the exchange of Radio and Television programs of a cultural and informative nature between the main stream of Broadcasting in the United States and the broadcasting stations and organisations of other countries. American radio station membership of BFA, consisting both of commercial and educational stations, has grown to 185 stations broadcasting music and spoken word programs that enable the people of the United States to listen directly to the peoples and cultures of the rest of mankind. 42 countries now send programs to BFA for distribution in the United States. Now that the 50 educational television stations of the National Educational Television and Radio Center are available as outlets for international television programs efforts are being made to intensify the exchange in television. BFA is an associate member of the EBU and is the official American organisation for selection and presenting entries to the Prix Italia and the Grand Prix Eurovision (Cannes).

Chairman: Dr. Samuel B. Gould, Chancellor University of California, Santa Barbara. President: John White (also President NETRC). Vice President Programs and Secretary: Basil Thornton. Address: 10 Columbus Circle, N.Y. 19, N.Y., U.S.A. Enquiries to Secr.

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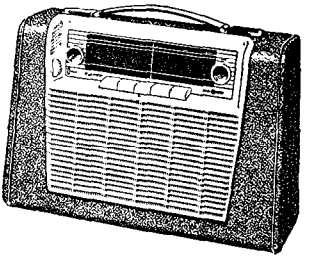
Special export version with 3 shortwaves and AM



4 wave bands	Push-button system
10–600 metres continuous	Non-breakable dial
Built-in aerial	Smart and handy
Battery – operated	Supreme tone
7 transistors and 2 diodes	Always ready for use

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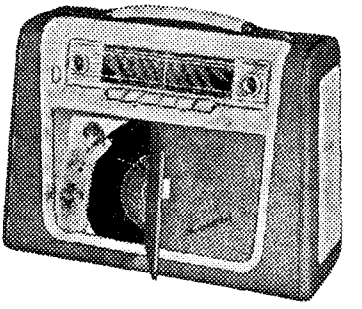
Transistorized

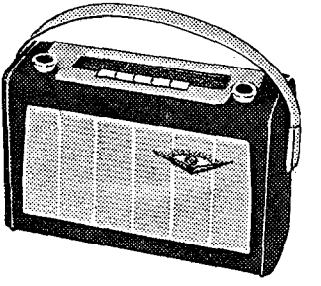


4 wave bands	Push-button system
16 – 2000 metres	Non-breakable dial
Built-in aerial	Smart and handy
Battery operated	Supreme tone
7 transistors and 2 diodes	Always ready for use

A Combination 4 – Band AM Receiver and 45 R.P.M. Record Player

TRANSAUTO

A Combined portable and car radio



3 wave bands	Non-breakable dial
Shortwave 16 – 53 metres,	Smart and handy
Medium and Long	Supreme tone and volume
Battery operated	Excellent performance
7 transistors and 2 diodes	Super sensitivity
Push-button system	Always ready for use

The Transauto is easily placed and locked in a mounting frame under the dashboard, and automatically connected to cars' aerial and battery

Light in weight and small in size

When used as portable: Built-in, Ferrit- and Loop aerials and operated by 4 flashlight batteries

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RADIO CANADA

CANADIAN BROADCASTING CORPORATION

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Religious Broadcasting organisations

EVANGELIC

Cadena Cultural Panamericana: (Panamerican Christian Network). A Christian network with the purpose of promoting cooperation among evangelical radio and television broadcasters throughout Latin America. **Addr.:** Apt. 2430, San José, Costa Rica. **Officers:** Pres.: N. Mydske. Vice Pres.: E. Jordan. Secr.: M. Picazo. Coordinator: W. Herzog.

The World Committee for Christian Broadcasting (WCCB): General Sec'.s: The Rev. W. Burton Martin, Suite 524, 156 Fifth Av., New York 10, N.Y., USA – Pastor H. W. von Meyenn, Church Radio Center, Evangelisches Pressehaus, Bethel-Bielefeld, Germany.

CATHOLIC

Pontifical Commission for Motion-Picture, Radio and Television: Pres.: H. Excellency Archbishop Martin O'Connor. Secr.: Most rev. Albino Galletto – Adr.: Palazzo San Carlo, Citta del Vaticano.

Association Catholique Internationale pour la Radiodiffusion et la Télévision:

Gen. Secretariat: Av. de la Gare 6, Fribourg, Switzerland. – **Gen. Secr.:** Dr. J. Schneuwly.

Administrative Council consists of 12 members. Pres.: Mag. Dr. J. B. Kors, OP, Hilversum, Holland – **Committees:** a) TV-prgr's b) Radio-TV and the child. c) Publications.

Associate Members: Algeria, Argentina, Australia, Austria, Belgium, Bolivia, Brazil, Canada, Ceylon, Chile, Colombia, Rep. of Congo, Costa Rica, Cuba, Curaçao, Denmark, Ecuador, Egypt, El Salvador, *Germany, Haiti, Indonesia, Iraq, Ireland, Italy, Japan, Luxembourg,* Madagascar, Mali, Monaco, Morocco, Niger, Norway, Panama, Paraguay, Peru, Philippines, Portugal, Puerto Rico, Rhodesia No., San Domingo, Spain, Sweden, Switzerland, Trinidad, Tunesia, Union of So. Africa, Uruguay, Vatican State, Venezuela.

Correspondent Members: French West Africa, Honduras, Mexico, Nicaragua, Panama (Canal Zone), USA.

Publications: "Catalogue du Disque de Musique religieuse". Television: "Commentaire du Code pour les usagers éducateurs". Revue UNDA in French, English, Spanish.

General Assembly: Last assemblies 1960: Monte Carlo 22/3, Rio de Janeiro 15–20/8. Branch: For Latin America addr.: Palacio São Joaquim, 105 rua da Gloria, Rio de Janeiro.

RELIGIOUS PROGRAMME SOCIETIES

EVANGELIC

EUROPE:

IBRA-Radio AB, Box 821, Stockholm 1, Sweden. O.: International Broadcasting Association, Stockholm.

Norea Radio, Nordic Radio Evangelistic Association, Oslo, Norway.

IKOR, Interkerkelijk Overleg in Radio-aangelegenheden, Hilversum, Borneolaan 27, Holland.

NCRV, Nederlandsche Christelijke Radio Vereeniging, Schuttersweg 8, Hilversum, Holland.

VPRO, Vrijzinnig Protestantse Radio-Omroep, Hilversum, Holland.

Radio Reveil, Via Tesserete 51, Lugano, Switzerland.

AMERICA:

Broadcasting and Film Commission NCCUSA, New York, USA. National Council of Churches of Christ in the USA, 220 Fifth Ave., New York 1, N.Y., USA. Programme Director: Ben Wilbur.

RAVEMCCO, New York, USA. Radio, Visual Education and Mass Communication Committee of the Division of Foreign Mission of the National Council of the Churches of Christ in the USA, 156 Fifth Ave., New York 10, N.Y., USA.

The Lutheran Hour "Bringing Christ to the Nations", Saint Louis, USA. Sponsored by The Lutheran Laymen's League, 3558 So. Jefferson Ave., Saint Louis 18, Missouri, USA.

Difusiones Interamericanas has been formed to take over the services formerly offered by the Panamerican Christian Network with the plan to amplify the services and extend into TV and motion pictures and other visual aids. **Addr.:** Apt. 2470, San José, Costa Rica. **Officers:** Pres.: F. Gabezas. Vice Pres.: F. Doña. Secr. Treasurer: P. Pretiz. Mgr.: A. Remington.

CAVE, Sao Paulo, Brazil. Centro-Audio-Visual Evangelico, under the Committee on cooperation in Latin America: NCCUSA.

ASIA AND PACIFIC:

Avaco, Tokyo, Japan. Audio Visual Aids Committee of the National Christian Council of Japan.

RAI - RADIOTELEVISIONE ITALIANA

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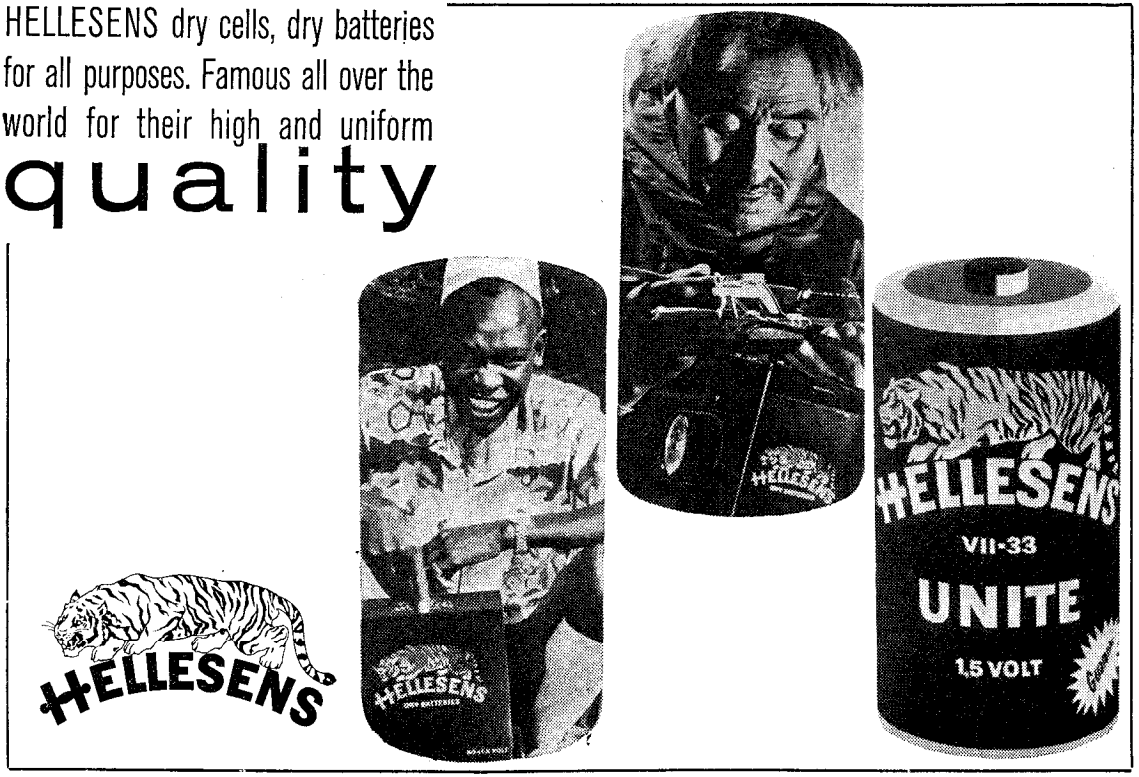

Christian Broadcasting Association, 420 Lyons Rd., Five Dock, Sydney, N.S.W., Australia. **Man. Dir.:** Rev. V. Turner (a Presbyterian Minister). Radio prgr. production on behalf of Protestant Churches. Distribution to 109 comm. stations.

CHURCH OWNED RADIO-STATIONS

EVANGELICAL

EUROPE:

Trans World Radio, Monte Carlo, Monaco – **TX:** 1 sw-tx of 100 kW – **L:** Prgr.s in 28 languages planned. – **Org.:** International Evangelism Inc., Chatham, USA.

AFRIKA:

Radiostation ELWA, Monrovia, Liberia. – **Org.:** Sudan Interior Mission, 164 West 74th Str., New York 23, N.Y., USA.

ASIA AND PACIFIC:

Call of the Orient: Manila, Philippines. – **Org.:** Far East Broadcasting Company, Inc., Box 1, Whittier, Cal., USA.

Voice of Christian Brotherhood (DYSR), Dumaguete City, Philippines. – **Org.:** Philippine Federation of Christian Churches.

The Christian Broadcasting System (HLKY, HLKT, HLKP), Seoul, So. Korea, is a project of the Radio Committee of the Korean National Christian Council. – **Org.:** RAVEMCCO, Interchurch Center, 475 Riverside Drive, New York 27, N.Y., USA.

Radiostation HLKX, Inchon, So. Korea. – **Org.:** The Evangelical Alliance Mission, 2845 We., McLean Ave., Chicago 47, Ill., USA.

Call of the Orient (KSBU), Naha, Okinawa – One mw-st. of 100 kW will be put into operation at the end of 1960 – Prgr. in Chinese.

Christian Broadcasting Company, Honolulu, Hawaii – **TX:** 1 mw-st. of 1 kW, 1 FM-st. of 1 kW. – **L.:** English. – **Org.:** Christian Broadc. Co., Box. 375, Honolulu, Hawaii.

5KA Broadcasting Co., Adelaide, Australia – **Org.:** Methodist Church of Australia.

Amalgamated Wireless, Sydney, Australia. – **Org.:** New South Wales Council of Churches.

The Voice of Righteousness, Taipei, Taiwan. – **Org.:** The Voice of Righteousness belongs to network "Cheng Sheng Broadcasting Corporation" in Taipei.

AMERICA:

Voice of the Andes, Quito, Ecuador – **Org.:** World Radio Missionary Fellowship, Inc., Talcotville, Conn., USA.

Faro del Caribe, San José, Costa Rica – **Org.:** Latin America Mission, 285 Orchard Terrace, Bogota, N.J., USA.

Radio Cultura (TGNA), Guatemala City, Guatemala – **Org.:** Central American Mission, 3611 Congress Av., Dallas 19, Texas, USA.

La Voix Evangélique, Radiostation 4VEH, Cap Haitien, Haiti – **Org.:** Oriental Missionary Society, 820 No. Hobart Blvd., Los Angeles 29, Cal., USA.

Radio Lumière, Cayes, Haiti – **Org.:** West Indies Mission, Inc., Box 71, Cayes, Haiti.

La Voz del Istmo (HOXO), Panama City, Panama – **Org.:** "Latin American Mission" and "World Radio Missionary Fellowship" in cooperation.

Radio Reloj (YNOL), Managua, Nicaragua – **Org.:** Latin American Mission, Bogota, N.J., USA.

Radio Victoria (PJA6), Oranjestad, Netherl. Antilles – **Org.:** Evangelical Alliance Mission, Chicago, Ill., USA.

Radiostation WIVV, Viques, Puerto Rico – **Org.:** Calvary Baptist Mission, Bradenton, USA.

La Cruz del Sur (CP27/38), La Paz, Bolivia – **Org.:** Canadian Baptist Foreign Mission, 190 St. George St., Toronto, Canada.

The Voice of the Arctic, Nome, Alaska, USA – **TX:** 1 sw-st. of 5 kW – **L:** English and Eskimo-dialects – **Org.:** Arctic Broadcasting Organisation (a branch of Evangelical Covenant Church of America).

PLANNED EVANGELICAL STATIONS:

The Voice of the Gospel, Addis Ababa, Ethiopia – **TX:** 1 sw-st. of 50 kW in construction; begin Christmas 1961 – **L:** Arabic and several languages of Africa – **Org.:** Commonly worked by "Lutheran World Federation" and "Christian Near-East-Council".

EPI – Emetteur Protestant International, Post Office Box 392, Berne 2, Switzerland. – **TX:** 1 sw-st. of 100 kW planned. – **L.:** Prgr.'s in 32 languages planned. – **Org.:** Schweizerischer Evangelischer Kirchenbund and the EPI Association.

IBRA-Radio, Liberia. – **TX:** 1 sw-st. of 100 kW under construction. – **L.:** Prgr.'s in 25 languages planned. – **Org.:** IBRA-Radio AB, Box 821, Stockholm, Sweden.

La Voz de los Andes (HCJB). Television st., Quito.

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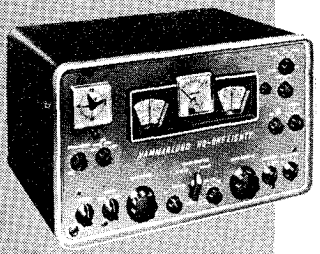

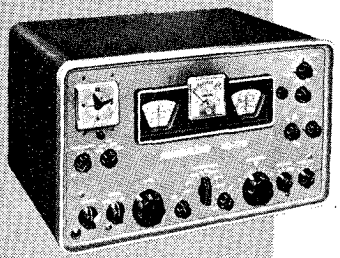

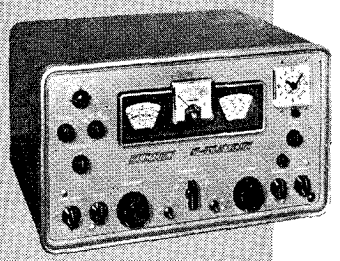

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CATHOLIC

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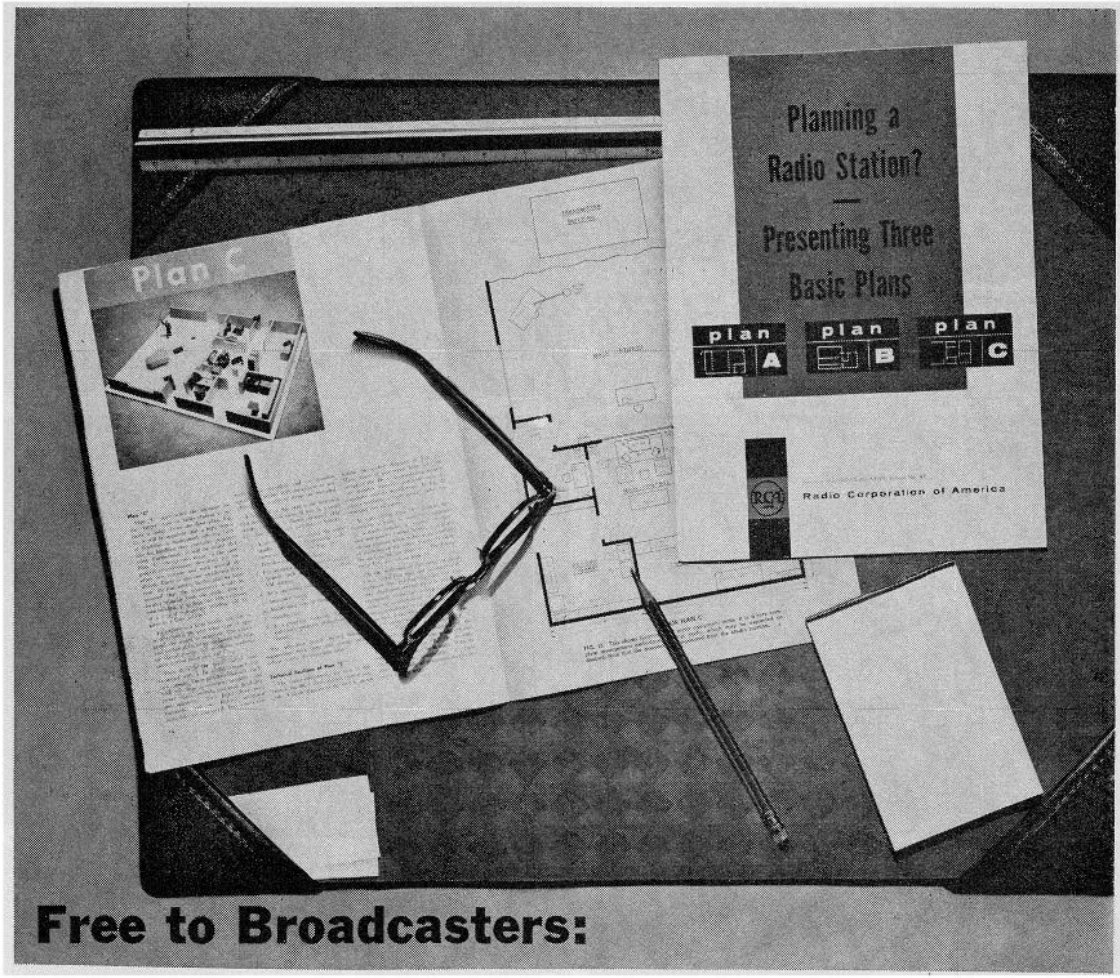
KRO, Katholike Radio-Omroep, Hilversum, Holland.
Vatican Radio, Vatican City, Rome, Italy.
Radio Renascenca, Lisboa, Portugal.

AFRICA:
Radio Leo, Leopoldville, Congo. Rep. – **Org.**: Private. "Societas Jesu".
Radio Collège, Elisabethville, Katanga, Congo. Rep. – **Org.**: Collège St. François de Sales, Elisabethville.
Radio Pax, Beira, Mozambique. – **Org.**: Owned by the Franciscan Fathers of Beira.
Radio Eclesia, Luanda, Angola, P.W.A.

ASIA AND PACIFIC:
Voice of the Catholic Philippines, Manila, Philippines. – **Org.**: University of Santo Tomas. **Broadcasting Station 2SM,** Sydney, Australia.

AMERICA:
Accion Cultural Popular, Radio Sutatenza, Bogota, Columbia.
Radio Reina de Colombia, Chiquinquira, Colombia.
Radio Aparecida, Aparecida, Brazil. – **Radio Loyola,** Sucre, Bolivia.
Radio Fides, La Paz, Bolivia. – **Org.**: Station of the "Colegio San Calixto" in La Paz. – **Radio Catolica,** Quito, Ecuador.
R. Cultura Religiosa, Banos, Ecuador. – **R. Paz y Bien,** Ambato, Ecuador. **La Voz del Campesino,** Naranjal, Ecuador. – **R. Fides,** S. José, Costa Rica. **Radio Diocesis de la Vega,** La Vega, Dominican Republic. **Emissora de Educacao Rural,** Natal, Rio Grande do Norte – **Radio Piranhas Ltda.,** Cajazeiras, Paraibo do Norte. – **Radio Pajeu de Educacao Popular** Ltda., Afogados da Ingazeira, Pernambuco. – **Radio Planalto S/A,** Nazaré da Mata, Pernambuco-Concordia, 143–1° and., Recife – **Radio Educadora Palmares de Alagoas,** Maceió, Alagoas – **Emissora Rio S. Francisco,** Penedo, Alagoas – **Radio Cultura de Sergipe,** Cx. P. 81, Aracajú, Sergipe – **Radio Difusora Bom Jesus de Cuiaba,** Cx. P., 22, Cuiaba, Mato Grosso – **Por um Mundo Melhor,** Cx. Pt., 211, Governador Valadares, Minas – **Radio Aparecida Ltda.,** Aparecida, Estado de S. Paulo – **Radio 9 de Julho Ltda.,** Venceslau Braz, 78–1°, Sao Paulo (Capital) – **Radio Braganca Ltda.,** Cx. Pt. 75, Bragança Paulista, Estado de S. Paulo – **Radio Colmeia Ltda.,** Cx. Pt. 3, Pato Branco, Paraná – **Radio Cambiju,** Saldanha Marinho, 23, Curitiba, Paraná – **Radio Cultural,** Cx. Pt. 1619, Curitiba Paraná – **Radio Difusora de Paranaguá Ltda.,** Cx. Pst. 107, Paranaguá, Paraná – **Radio Soc. Cruz de Malta Ltda.,** R. Itagiba, Lauro Muller, Santa Catarina – **Soc. Radio Difusora Urussanga Ltda.,** Urussanga, Santa Catarina – **Soc. Radio Tuba Ltda.,** R. Lauro Muller, 1, Tubarão, Santa Catarina – **Radio Sarandiense de Sarandi,** Sarandi, Rio Grande do Sul – **Radio Aurora Ltda.,** Cx. Pst. 53, Guaporé, Rio Grande do Sul – **Radio Cacique Ltda.,** Lagoa Vermelha, Rio Grande do Sul – **Radio Cristal de Soledade,** Soledade, Rio Grande do Sul – **Radio Sociedade de Sobradinho Ltda.,** Sobradinho, Rio Grande do Sul – **Radio Difusora Ltda.,** R. Uruguai, 155, 4° and. Porto Alegre, Rio Grande do Sul – **Radio Difusora Veranense de Marau,** Maráu, Rio Grande do Sul – **Radio Aratiba Ltda.,** Aratiba, Rio Grande do Sul – **Radio Difusora Veranense Ltda.,** Venanópolis, Rio Grande do Sul – **Radio Difusora Garibaldi,** Rio Grande do Sul – **Radio Conquistadora and Radio Porto Lucena,** Empresa-Radio S. Miguel, Res. Episcopal, Uruguaiana RS. – **Radio em Planejamento,** Campo Grande, Mato Grosso – **Centro Radiofônico Franciscano,** Petrópolis, Estado do Rio de Janeiro – **Radio Capixaba,** Cx.-Pst. 722, Vitoria, Espirito Santo – **Radio Difusora de Goiania,** Pça Cnel. Joaquim Lúcio, 117, Goiânia, Goias.

The Editor of the World Radio Handbook seeks information from all stations engaged in broadcasting and interested in international broadcasting and publishes the information as communicated to him by the stations. The Editor cannot be held responsible for the correctness of this information or for not publishing schedules and other particulars of stations which do not supply these information or for changes in the times and wavelengths of programmes made after the current edition has gone to press.



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PICTURES OF THE WORLD

1. **BBC Television Service:** Aerial view of the new Television Centre.

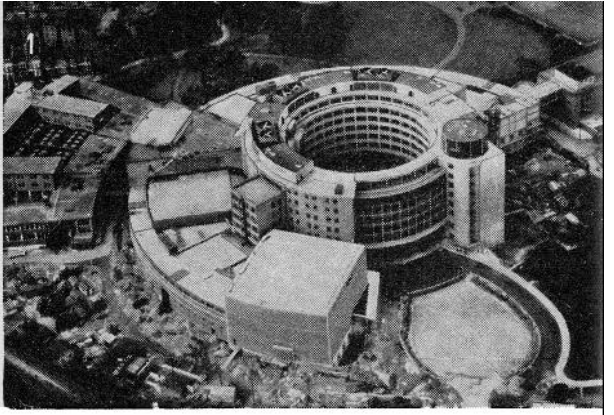
2. **Radio New Zealand:** The native N.Z. Bellbird, which provides Radio New Zealand with a distinctive tuning and interval-signal.

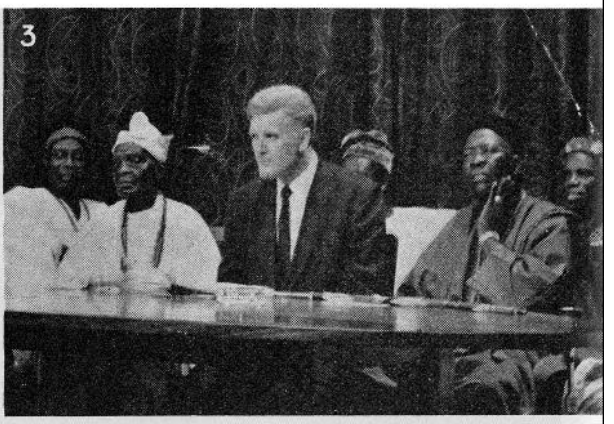
3. **Wester Nigeria Radiovision Service:** Peter Proudman, News Chief, interviews the Alake of Abeokuta (left) and the One of Ife (right).

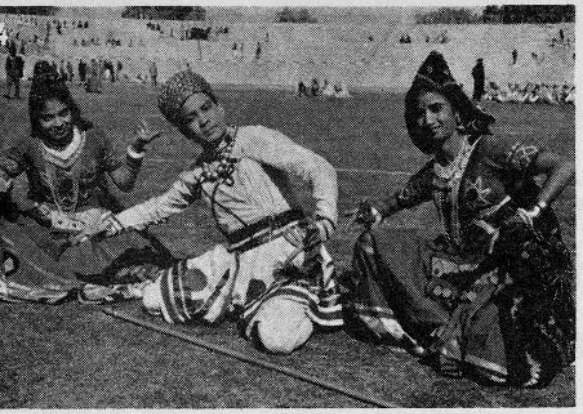
4. **All India Radio:** A. Banjara Dance Pose-Features on India's folklore, folk music, etc. are regularly broadcast in AIR overseas services.

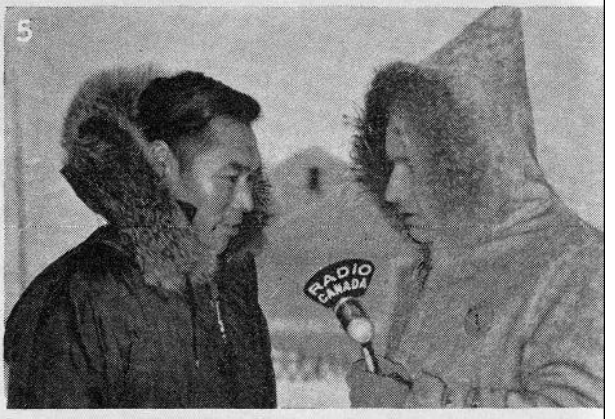
5. **Canadian Broadcasting Corporation, International Service:** English-language reporter Gordon Mesley interviews a citizen of Canada's North on his home terrain.

6. **Ghana Broadcasting System:** Kumasi Manhyia Adenkum Band. one of the vocal and percussion ensembles found among the Akan people of Ghana. The Adenkum, the instrument after which this type of group is named, is a gourd with a long neck containing stones put in for rattling effect. The chorus is usually female, though men are allowed in the percussion section.









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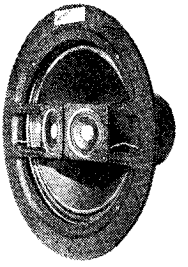

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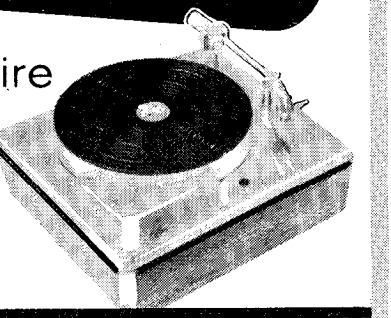

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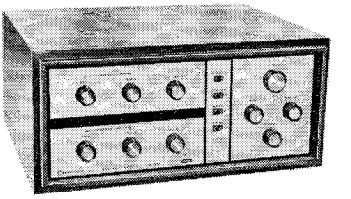

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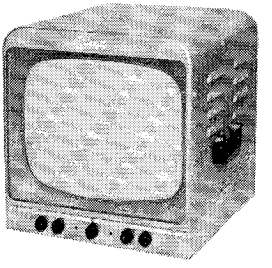

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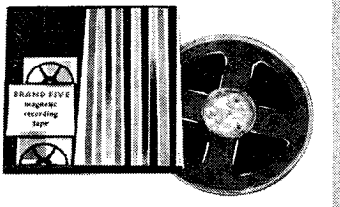

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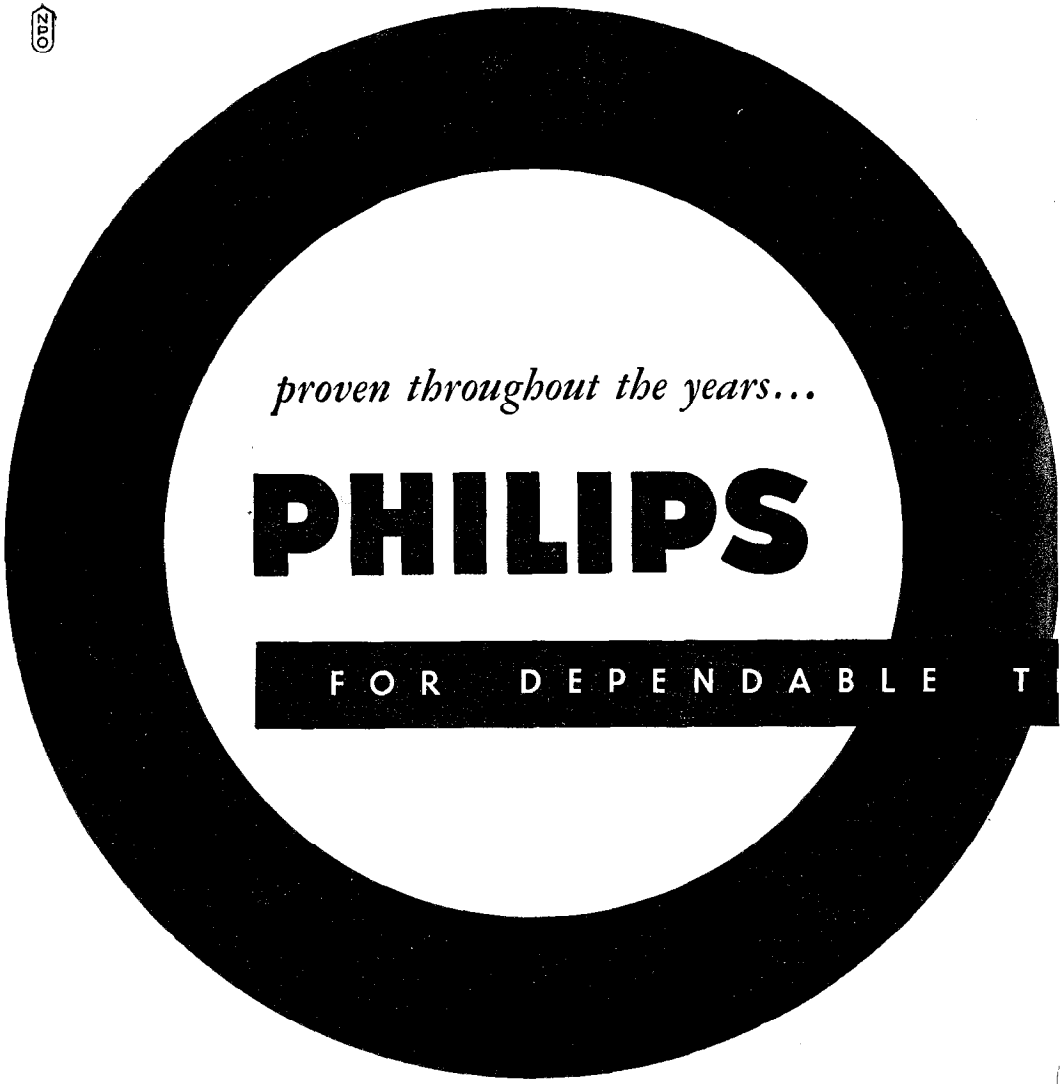

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Measuring equipment for radio and TV Service

EUROVISION IN 1961

G. Hansen, Director of the E.B.U. Technical Centre, Brussels.

The operations room of the E.B.U. International Television Control Centre in Brussels. In the forground, Mr. E. H Griffiths, Head of the Eurovision Section of the E.B.U. Technical Centre.

Every year sees more and more exchanges of television programmes between the Members of the European Broadcasting Union and there is, so far, no sign of a levelling-off in the rising curve; in fact, just the reverse. In 1960 about nine transmissions were organised by the E.B.U. every week compared with seven in 1959 and five in 1958. These figures do not include the many programme exchanges between two or three neighbouring countries, usually speaking the same language, for which the E.B.U.'s help is rarely needed. One major reason for such an increase is the development of the "television news summary". "Hot" news film is sent through the network at off-peak times for recording and subsequent transmission in Members' news bulletins. 1959 and 1960 have been remarkable for the personal tours undertaken by many leaders of the great powers. Wherever they went, these peripatetic statesmen were dogged by the newsreel cameras and this, more than anything else, brought the television news summary into its own.

Every year also sees an expansion of the Eurovision network and more countries taking part in the exchanges. The Norsk Rikskringkasting (Norway) is now permanently linked to the network. In June, 1960, a reversible link was opened between Finland and Sweden which made it possible to send pictures from Finland to all the countries connected to the Eurovision network; transmission to Finland has been possible since 1959. The opening, in September, 1960, of a reversible link between Yugoslavia and Italy enables the Jugoslovenska Radiotelevizija to take part fully in the exchanges. The link to Spain is now permanent. (It may be recalled here that it was on 2nd March, 1960, that the first pictures were brought across the Pyrenees via a temporary radio-link put up at very short notice, on the initiative of the French). It is now also possible to get pictures from Corsica; the first live broadcast from Ajaccio took place on 15th August. But certainly, as regards the network, the most remarkable technical achievement which took place in 1960 is the setting up of a link between France and Algeria over the Mediterranean. The path, extending from Fontfrède near Perpignan to Bouzareah near Algiers, is approximately 630 km long; an intermediate relay has been installed on the Puig Mayor in Majorca, which lies approximately halfway between the two. These 300 kilometre "hops" have been made possible by the utilisation of tropospheric scatter. The links work in the 4000 Mc/s band with a transmitter power of 500 W. The results obtained so far have been very encouraging and it is hoped that a regular service will be possible during most of the year. The chain is one-way for the time being, from France to Algeria, but in due course a second chain working in the other direction is to be installed. The Fontfrède installations will later be transferred to the nearby Pic Néculous.

Exchanges of television programmes with countries of Eastern Europe such as Czechoslovakia, Hungary, and Poland, have already taken place and it will be possible to receive live pictures from Moscow, through Finland as soon as the Moscow-Tallinn link is put into operation, possibly at the end of 1960 or at the beginning of 1961. The technical, legal and administrative problems raised by such exchanges between Western and Eastern Europe have been discussed by E.B.U. and O.I.R.T. delegates at a meeting in Geneva in February, 1960.

Here then are some data on Eurovision exchanges and on the radio-links network but what interests the viewer most are the programmes themselves. Which of them will he remember? Possibly the programmes mentioned earlier which enabled him to see the political leaders of our divided world. Sports enthusiasts were able to appreciate, for example, the football matches transmitted from Spain, the international skiing competition from Yugoslavia or the Tour de France cycle race (of which some excellent pictures were transmitted from a helicopter, the early trouble with fading having been largely overcome). Others may have preferred Princess Margaret's Royal Wedding, and others still the Eurovision song contest and the victorious Tom Pillibi. But, it is probably the magnificent pictures of the Olympic Games in Rome which all viewers will remember, not only the sports enthusiasts but the others also to whom they quite often revealed the beauty of athletics. Tribute should be paid to the gigantic effort of the R.A.I. which has been crowned by a splendid success.

Such is briefly described, in the course of its expansion, the stage reached by Eurovision at the time of writing, 1st October, 1960.

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PICTURES OF THE WORLD

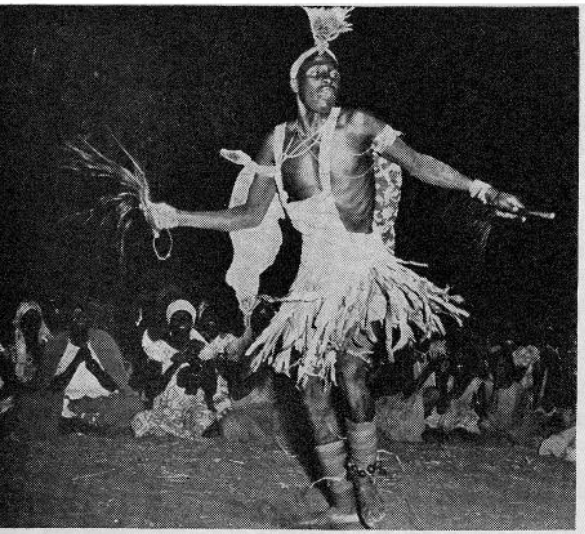
1. Woman from Chana come from the Peruvian Amazonian forest.

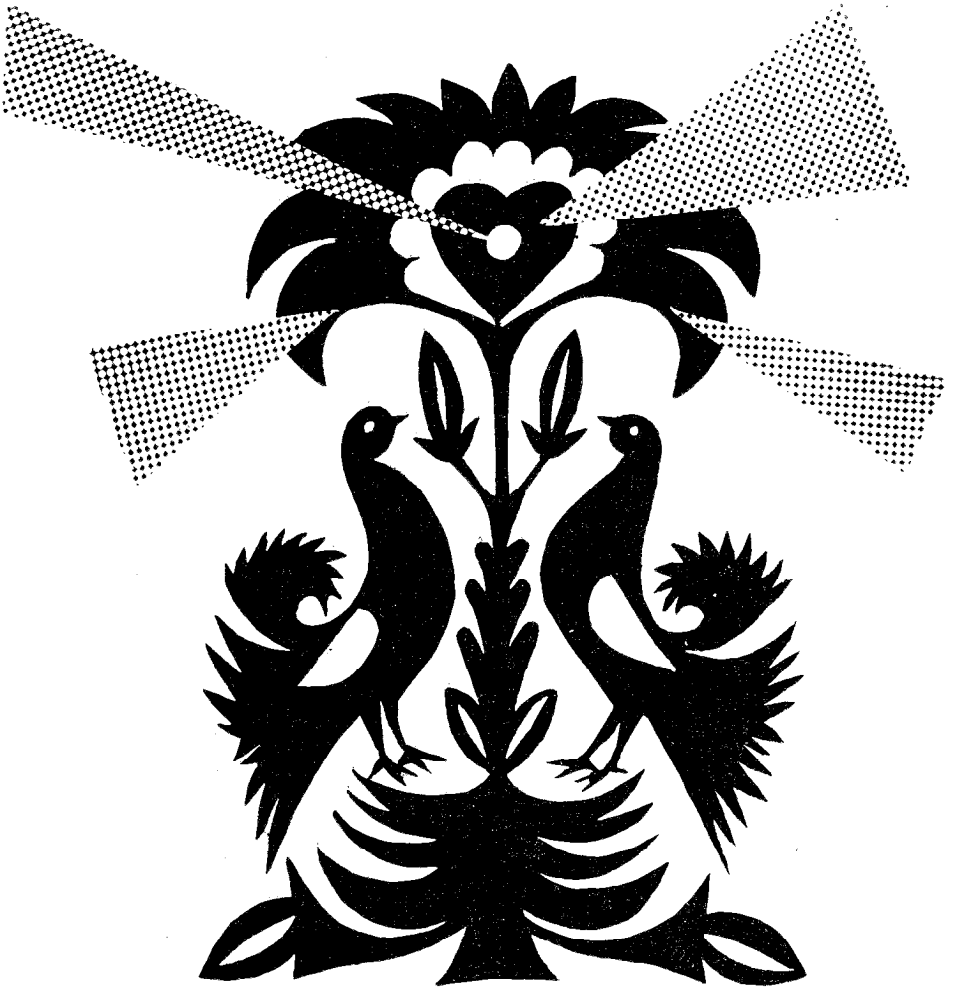
2. **Northern Rhodesia:** A village dancer named Kaleya dancing the *Kule*. He is of the *Senga* tribe from Chifunda's Village, in the Luangawa Valley, Eastern Province of Northern Rhodesia.

3. **Radio Bahrain:** His Highness the Ruler giving the first speech at the opening of the station.

4. **Western Nigerian Television WNTV:** Premier Obafemi Awolowo presides at the recent opening of WNTV, Africa's first television network. On stage behind the premier are British officials and representatives of the unique commercial venture formed in partnership by the Western Nigerian Govt. and Overseas Rediffusion Ltd. WNTV plans to devote a large portion of its airtime to educational programmes.

5. **BBC Television Service:** Glamorous VI VELASCO who appeared in "Tempo 60", a BBC-TVprogr of entertainment in the modern manner.





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INTERVISION

By Ales Suchy, Secretary of the OIRT Television Commission

Creation of Intervision

The OIRT Administrative Council decided at its Budapest session in January, 1960, to create an international system of exchange of television programmes—INTERVISION. In its initial stage of development this connects the following television organizations:
Czechoslovak Socialist Republic: Ceskoslovenskà televize, Prague.
German Democratic Republic: Deutscher Fernsehfunk, Berlin.
Hungarian P.R.: Magyar Televizio, Budapest.
Polish P.R.: Telewyzja Warszawa, Warsaw.

By the end of 1960, the direct exchange of television programmes was possible on radio relay lines of an overall length of about 3,000 km. The programmes exchanged can now be received by some thirty television stations serving nearly 10 million viewers. Facilities of connecting the system to that of the Eurovision are also available, and a number of programmes have already been exchanged with the television organizations participating in the Eurovision system.

In the course of 1961, the Soviet Television with its broad network of television studios and stations will be connected to the Intervision system, and in the 1961–62 period also the television organisations of the P.R. of Bulgaria and the Rumanian P.R. It is also supposed that in future the television organizations affiliated to the OIRT and situated outside the European zone will be connected to the system.

Aims of the Intervision

In creating the Intervision, the OIRT aims at aiding realization of the noble ideas of peace, mutual understanding and friendship among peoples as well as the exchange of cultural values, authentic information on the life of peoples as well as broadcasts of important international events, scientific and technical broadcasts, broadcasts of sporting events, and enriching the programmes of television centres affiliated to Intervision by broadcasts serving humanitarian, educational, and instructive aims.

Intervision membership

Countries affiliated to the OIRT and availing of technical facilities for direct exchange of television programmes become automatically members of Intervision. Non-member organizations having adopted the Intervision Statues may also take part.

Organization of the television programme exchange

The direction of Intervision is effected by the OIRT Television Commission which deals with the essential programme and organizational questions while a Programme Council has been created for working out the plan of exchange of television programmes between Intervision members as well as with other television organizations or systems. The present chairman of the OIRT Television Commission and the Intervision Programme Council is Mr. H. Adameck, Director General of the Deutscher Fernsehfunk (German D.R.).

The system used for the control of the network is based on the experience gained in previous years in direct exchange of television programmes between some OIRT member-countries, as well as on the results of the work of the specialized Study Groups of the OIRT Technical Commission and of the C.C.I.R.

Activities of the Intervision system in 1960

In the first year of its existence, the Intervision has organized a number of direct exchanges of television programmes of various character both among its present member-organizations as well as with the Eurovision system and some individual member-organizations of the latter. In the course of this first year of its existence, programme exchanges among the Intervision members became a permanent part of the current programmes of the television organizations in the affiliated countries.

As far as the exchange with the Eurovision network is concerned, negotiations between the OIRT and the E.B.U. representatives took place in Geneva in February, 1960. Both organizations were especially interested in direct transmissions of cultural, musical, sporting, popular-scientific and children's broadcasts. In the course of 1960, a number of programmes were exchanges between the Intervision and the Eurovision systems. A considerable part of these transmissions were broadcasts of topical interest and sporting events, the most important of them being the transmissions from the 1960 Olympic Games in Rome.

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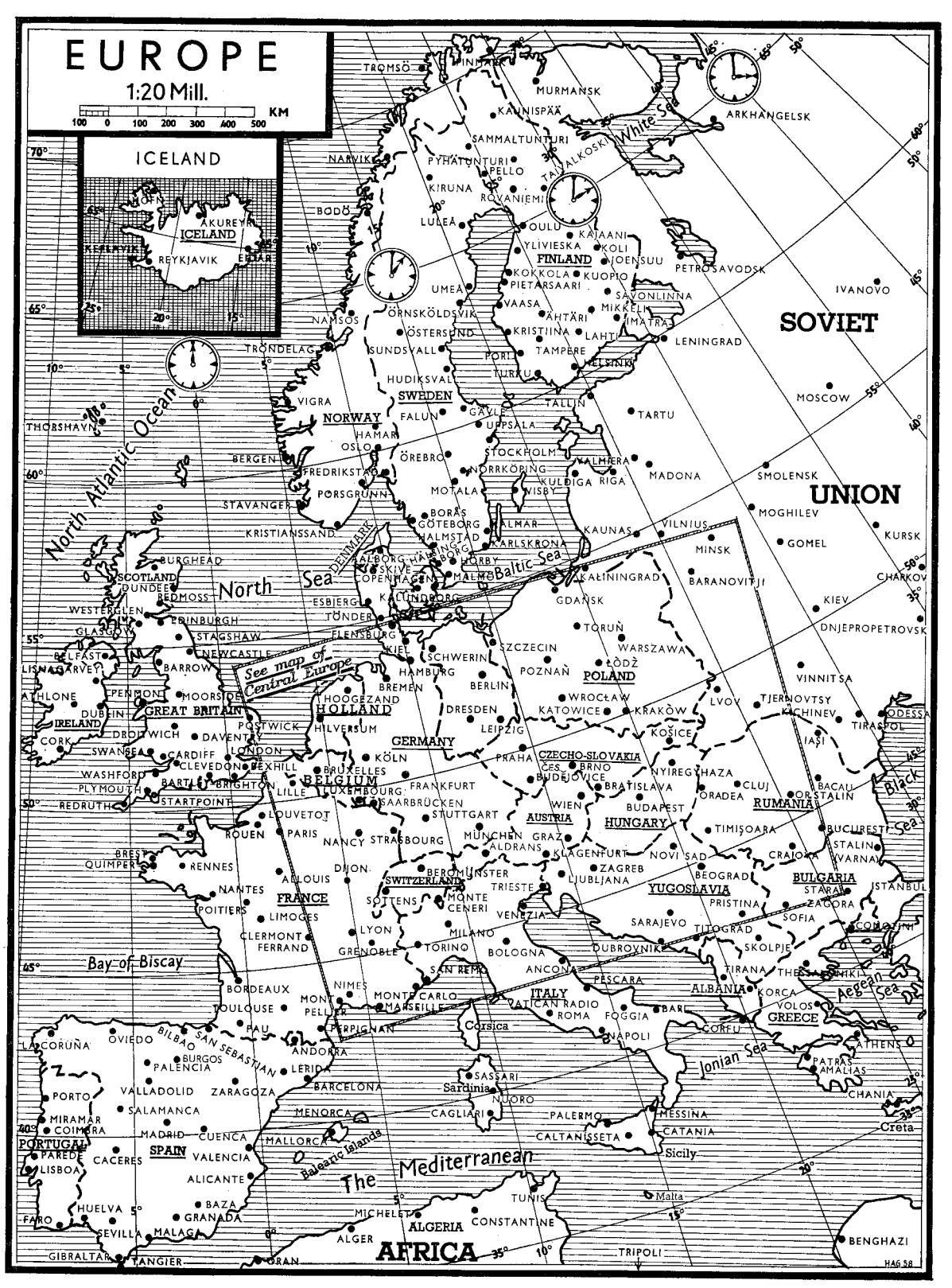
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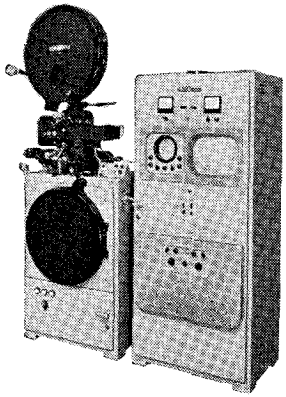

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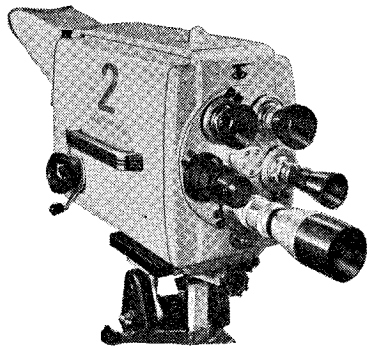

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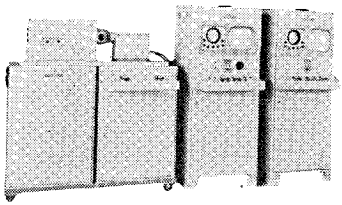

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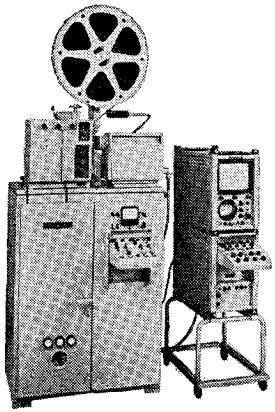

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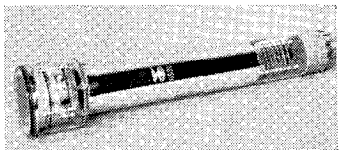

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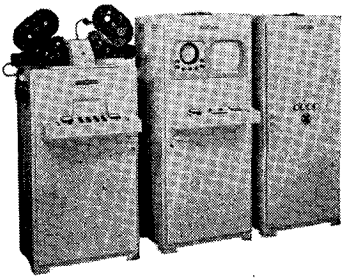

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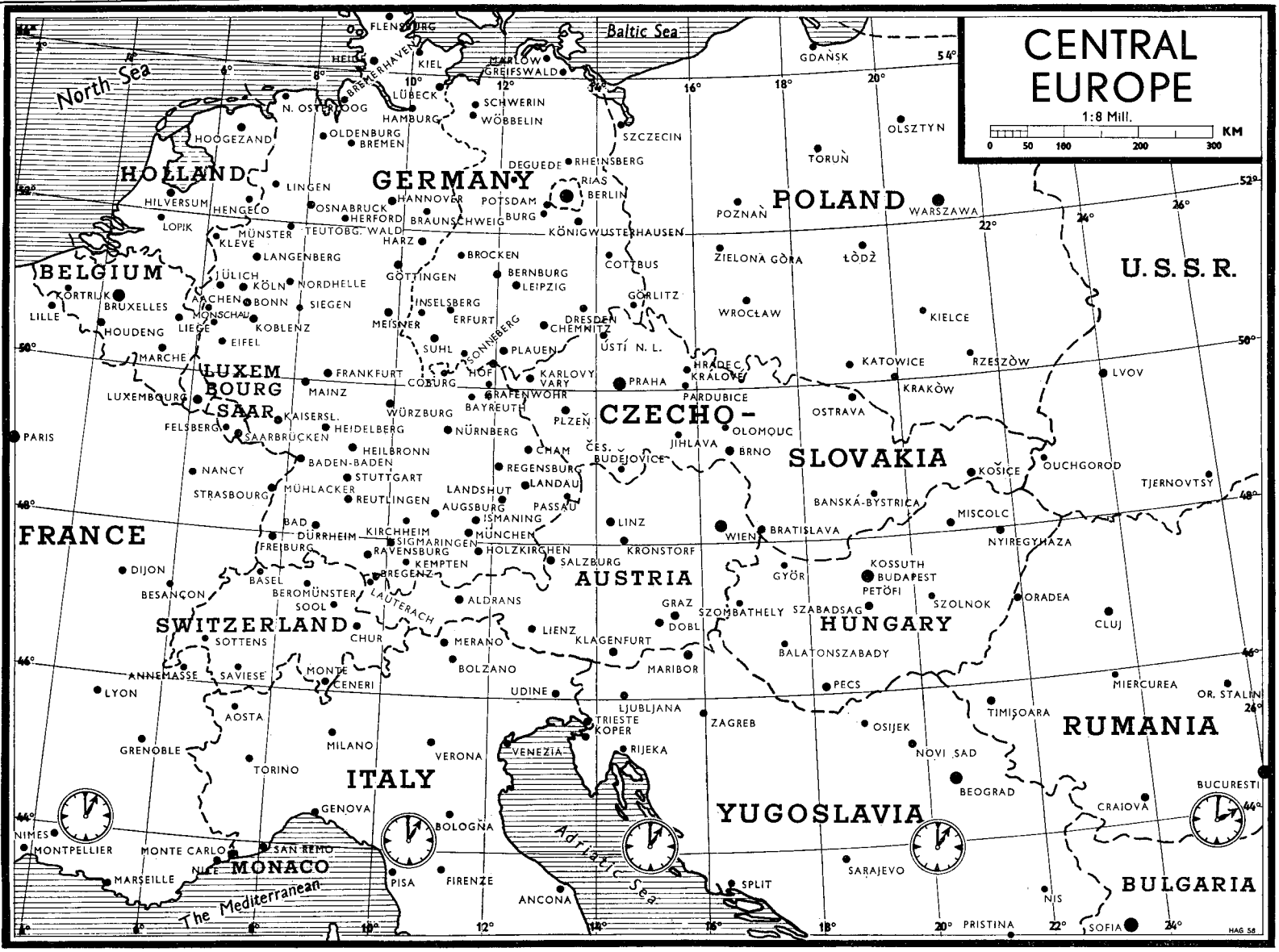
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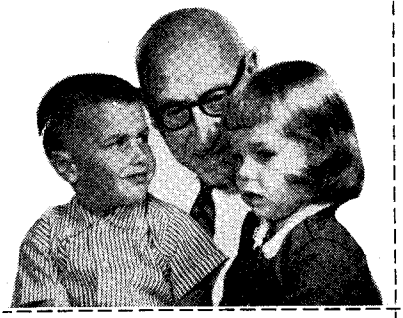
NOVI SAD
TORINO
BEOGRAD
BUCURESTI
GENOVA
CRAIOVA
NIMES
BOLOGNA
MONTPELLIER
MONTE CARLO
SAN REMO
SARAJEVO
NICE
PISA
FIRENZE
SPLIT
MARSEILLE
ANCONA
NIS
PRISTINA
SOFIA
HAG 58



"SCOTCH" IS A REGISTERED TRADEMARK OF 3M COMPANY

More people use "SCOTCH" BRAND than any other magnetic tape in the world . . .

. . . and they use it in more ways because there is a specialized "SCOTCH" BRAND Magnetic Recording Tape for every purpose. "SCOTCH" BRAND pioneered such developments as *permanent silicone lubrication* to protect recording heads and extend the tape life; *all-weather polyester backings* for perfect performance in any climate; *tensilized super-thin polyester backings* that double recording time; *high-output* and *extra fidelity* tapes for critical recording needs.

All were developed by 3M research; are manufactured under the most exacting quality control standards. "SCOTCH" BRAND Magnetic Recording Tapes are *first* in radio, *first* in television, *first* in automation and instrumentation. They bring you professional quality at popular prices!

3M COMPANY

WHERE RESEARCH IS THE KEY TO TOMORROW

For information about 3M products write: 3M Company, International Division, St. Paul 6, Minn., U.S.A.

SHORTWAVE RADIO CONDITIONS DURING 1961

T. W. Bennington, Research Dept., BBC, England.

The activity of the sun, as indicated by the observations of sunspots and many other phenomena appearing on the solar disc, reached a peak at the epoch February/March 1958. At that time the sun's ultraviolet radiations arriving in the earth's outer atmosphere were also at a peak level. And it is these radiations which produce the earth's ionosphere, the "electrified" region which we use as a reflecting medium for our shortwave signals, and which prevents their escape into space and permits of their propagation to long distances over the earth's surface.

Since 1958 the solar activity has been decreasing towards a minimum level which is expected about 1965. At the time of writing (August 1960) the average Sunspot Number (which is a good indicator of the solar activity) has fallen from 201.3 in 1958 to a value of 128.6, and if the present rate of decrease is approximately maintained it should reach a value applicable to the end of 1961 of about 68.

So throughout 1961 the average solar activity is likely to go on steadily decreasing, not at a fast rate, but at a quite appreciable one. So much so that the decreasing amount of solar radiation falling on the ionosphere is likely, during the year, to bring about appreciable changes in the radio wavebands which are of best use for maintaining the long distance services. The shorter wavelengths in use at present are likely, either to become unusable, or to be usable over a shorter daily period than at present, and more use will have to be made of the longer wavelengths. That is a situation which is by no means an attractive one, for it means that, with more stations forced to use the longer wavelengths in the shortwave range, there will be a tendency for congestion of radio transmissions in these longer wavebands. However, the worst is not to come in 1961, but in the years nearer towards 1965, but who knows whether by that time some solution to the congestion problem may not have been found?

But, keeping to 1961, what changes in the usable wavelengths are likely to occur during the year? It is not possible, in this short article, to deal with these for a large number of circuits, but the Table may be helpful in indicating the probable best wavelengths for three directions from Europe, or vice versa, for good reception during different months and times of day. For shorter distances in the same directions the next longer wavelengths will probably be the best, but provided the distance is greater than 4000 kilometres the wavelengths shown should be usable. During times not shown the best waveband should be one between those given for the nearest times, except during the early morning, when it should be the next longer waveband to those given for the night period.

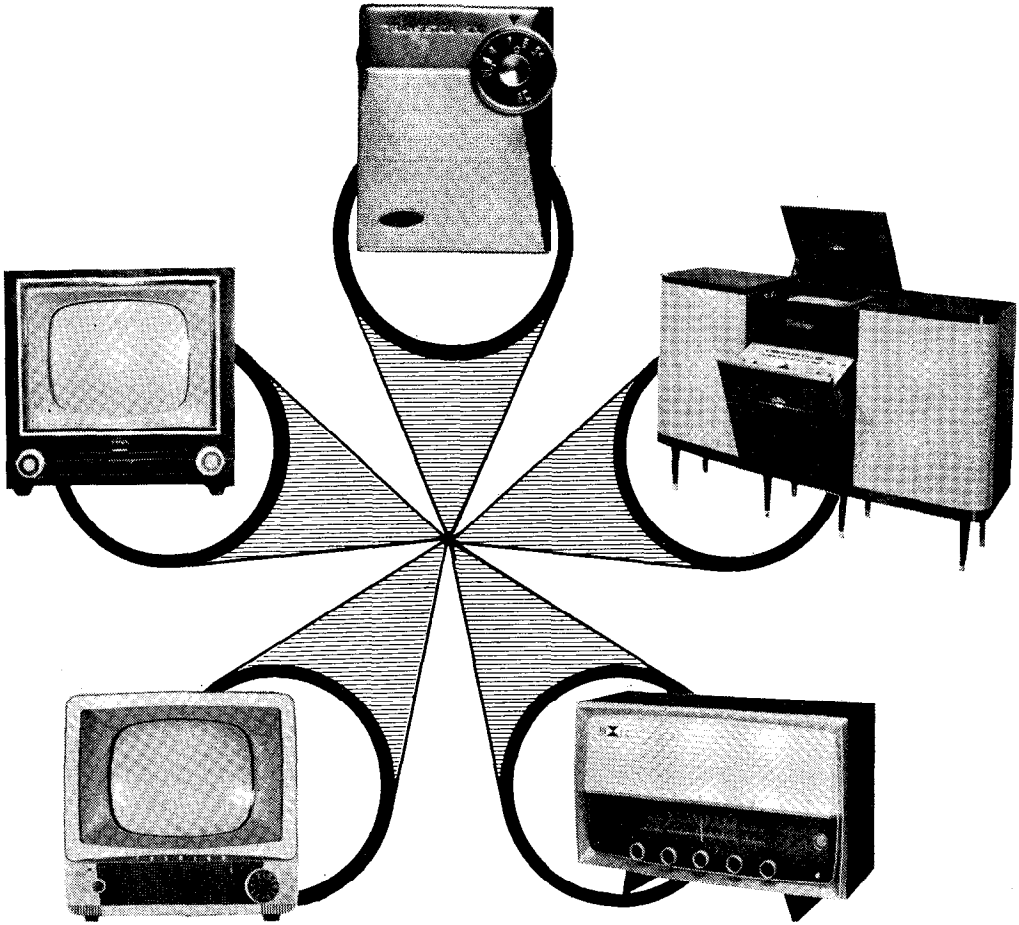
The wavebands shown in the Table are those for the broadcasting services, and it is evident that some pretty definite changes are likely to occur during the year. The daytime 11-metre waveband, which for the past several years has proved efficacious over many circuits, will, during 1961, become too short for use over all circuits, and the 13-metre waveband will take its place. On the North American circuit even that will be too short by the end of the year, and the 16-metre band will be the shortest usable. During the summer months the 16-metre band will be best for daytime use over southerly circuits, and the 19-metre band over the North American circuit. The evening wavelengths will change for southerly circuits from 19 metres at the beginning to 25 metres at the end of the year, and from 25 metres to 31 metres for the North American circuit. As for the deep night usable wavelengths they are likely to change for southerly circuits from 25 metres at the beginning to 31 metres at the end of the year, and for the North American circuit the 41 or 49 metre bands will be of best use during the winter season.

Ionospheric disturbances, which often cause interruptions to long distance communications, are known to be caused by particles of matter ejected from the sun during solar flares, and which, travelling at high velocities through the sun's corona, eventually reach the earth's atmosphere and produce various disturbing phenomena in the ionosphere. Since the flares are always associated with sunspots it might be thought, now that the sunspots are decreasing in numbers, we are likely to have less ionospheric disturbances. Unfortunately that is not so, for though, after sunspot maximum, the disturbances at first begin to decrease, then, a few years before sunspot minimum, particles begin to be ejected, not from flares, but from what are known as "M regions" on the sun. Instead of an "explosion" of particles from a flare the M region emits a relatively long-lived stream of them, which rotates with the sun and sweeps the earth every 27 days, causing disturances which recur at that interval of time. It may well be, therefore, that during 1961, we shall begin to get some of these recurring ionospheric disturbances.

Interesting new information is now being obtained about the nature of the solar particles which are emitted during flares, and about their terrestrial effects. It appears that some of the particles reach such very high velocities that they arrive in the earth's atmosphere on or two hours after the occurrence of the flare. Their effect is to cause a "black-out" of radio signals in regions surrounding the polar caps. The main body of the particles, however, possess less energy, and take about 26 hours to reach the earth. Their first effect is to cause a radio "black-out" in the ancoral regions, followed by an ionospheric disturbance, similar to that mentioned in the last paragraph, which spread through the high and middle latitudes of the earth.

Continued page 36

Toshiba **Where quality is esteemed, it's Toshiba!**



In the home, at the shop, at the office—in a word, everywhere where electricity is making life easier and more pleasant, Toshiba's complete line of quality electric appliances are playing an ever-growing role. Beautifully designed, competitively priced, long service guaranteed, Toshiba products are finding their way into an ever-increasing number of homes all over the world!

Tokyo Shibaura Electric Co., Ltd.

TOKYO JAPAN CABLE: TOSHIBA TOKYO

Circuit	Months	Period	mb	GMT	mb	GMT	mb
Europe/North America (and vice versa)	Jan./Feb.	00.00–06.00	41	12.00–19.00	13	21.00–23.00	25
	Mar./Apl.	00.00–06.00	31	12.00–21.00	13	21.00–24.00	25
	May/Aug.	00.00–06.00	31	10.00–16.00	19	16.00–23.00	19
	Sep./Oct.	00.00–06.00	41	12.00–21.00	16	21.00–24.00	31
	Nov./Dec.	00.00–06.00	41	12.00–19.00	16	21.00–23.00	31
Europe/South America (and vice versa)	Jan./Feb.	00.00–06.00	25	10.00–18.00	11	20.00–23.00	19
	Mar./Apl.	00.00–06.00	25	10.00–20.00	11	20.00–23.00	16
	May/Aug.	00.00–06.00	25	12.00–20.00	16	22.00–24.00	19
	Sep./Oct.	00.00–06.00	25	10.00–20.00	13	20.00–23.00	19
	Nov./Dec.	00.00–06.00	31	10.00–18.00	13	20.00–23.00	25
Europe/South Africa (and vice versa)	Jan./Feb.	00.00–06.00	25	08.00–17.00	11	20.00–24.00	19
	Mar./Apl.	00.00–06.00	19	07.00–19.00	11	19.00–24.00	19
	May/Aug.	00.00–06.00	31	07.00–19.00	16	19.00–24.00	19
	Sep./Oct.	00.00–06.00	25	07.00–19.00	13	19.00–24.00	25
	Nov./Dec.	00.00–06.00	31	08.00–17.00	13	20.00–24.00	25

RECEPTION OF TELEVISION AND V.H.F. TRANSMISSIONS

Television and v.h.f. transmissions for public reception are conducted on frequencies above 40 Mc/s (wavelengths shorter than about 7.5 metres) and on these frequencies the most important part of the radiated energy is the socalled "ground" wave. This consists of several components, but they all travel direct from transmitting to receiving aerial near to the surface of the earth. Under these conditions one would think that the distance range of the transmitter would be limited to the distance to which a straight line could be drawn between the two aerials without intercepting the curved surface of the earth. When the receiving aerial disappeared below the transmitting aerial's "horizon" it would be out of range. This, in practice, is not quite true, firstly, because a limited amount of radio energy is enabled to penetrate beyond the horizon by the process of diffraction or "bending" at the earth's surface, and, secondly, because the direct wave does not travel through the lower atmosphere in a perfectly straight line. Because of the variation in atmospheric pressure, temperature and moisture content with height above ground it follows, in fact, a slightly but continuously curving path, the curve being in the same direction as that of the earth but considerably more pronounced. Both of these effects enable the wave to be received at a workable level some small distance into the "shadow zone", so that the "radio horizon" is extended some way beyond the optical horizon.

It will easily be seen, however, that the distance at which a transmission is receivable will depend, primarily, upon the height above ground of the transmitting and receiving aerials, for increasing the height of either will, of course, extend the distance of the horizon. Other factors which affect the distance range are the power radiated from the transmitting aerial, the frequency used, the polarisation (vertical or horizontal) and the nature of the terrain (whether smooth or mountainous). As the strength of the received signal also varies considerably between the receiving locations in any area, it is usual to estimate the received signal strength which will be exceeded at 50% of the locations.

The Table below gives a rough idea of the maximum distances at which a workable signal could be expected in normal atmospheric conditions in a quiet country site, with a receiving aerial 10 m above the ground, for different transmitter powers and aerial heights. It applies to 50% of receiving locations for 50% of the time, is for a non-mountainous land path, and is approximately applicable over the whole v.h.f. band and for vertical and horizontal polarisation.

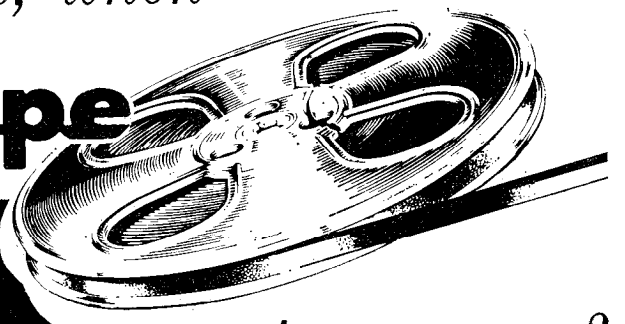
APPROXIMATE MAXIMUM DISTANCES FOR FAIRLY GOOD VHF RECEPTION

Power	Transmitting Aerial Height 200 m	Transmitting Aerial Height 300 m	Transmitting Aerial Height 400 m
	Distance (km)	Distance (km)	Distance (km)
10 kW	90	100	110
50 kW	110	120	130
100 kW	120	130	140
500 kW	150	160	170

Continued page 40

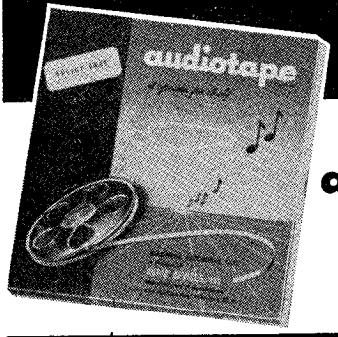
why settle for less, when

audiotape



costs no more?

AUDIOTAPE has:
excellent response at high and low frequencies – assures most faithful reproduction of all sounds, exceptionally low background noise; unequalled uniformity of output – guaranteed not to exceed ¼ db within the reel and ½ db from reel to reel. AUDIOTAPE oxides are magnetically oriented to provide increased output and reduced distortion. AUDIOTAPE is guaranteed splice-free in 1200 and 2500 ft. reels on 1½-mil plastic or "Mylar" base, and 1800 and 3600 ft. reels on 1-mil plastic or "Mylar". It has a moisture-repellent binder that assures smooth, quiet tape travel even under hot, humid conditions.



A Complete Line of the Finest Professional Quality Magnetic Sound Recording Tape

In this high fidelity age, the key to success in the recording business is QUALITY. Numerous broadcasting stations throughout the world found that AUDIOTAPE consistently delivers outstanding performance.

The complete line of professional quality AUDIOTAPE offers a base material and thickness to meet every recording need. And no matter which type you select, you can be sure you are getting the finest tape that can be produced. There is a complete range of reel sizes and types, too, including the easy-threading C-Slot reel for all 5 and 7-inch AUDIOTAPES.

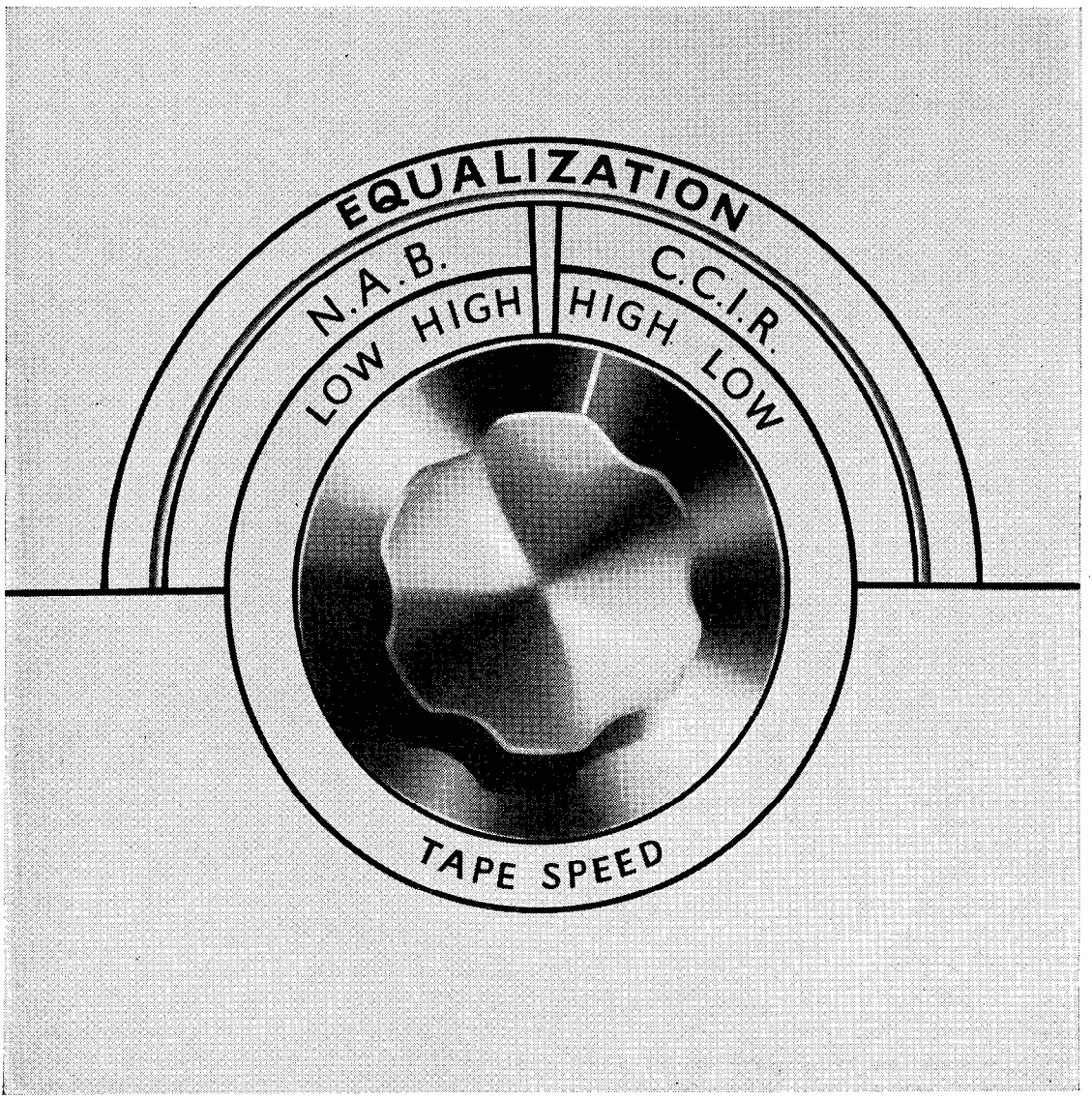
AUDIOTAPE is available in the Regular Tape, Long-Recording Tape (50% more recording time), Super-Thin Tape, also the AUDIOFILM for the original recording of motion picture and TV sound.

audiotape ... *the Standard of Professional Sound Recording Quality the World Over.*

Write today for catalog and prices to:

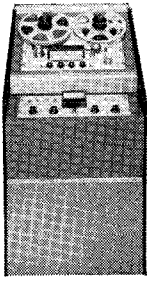
AUDIO DEVICES, Inc.

Export Department
13 East 40th St., New York 16, N. Y., U.S.A.
Cables: ARLAB



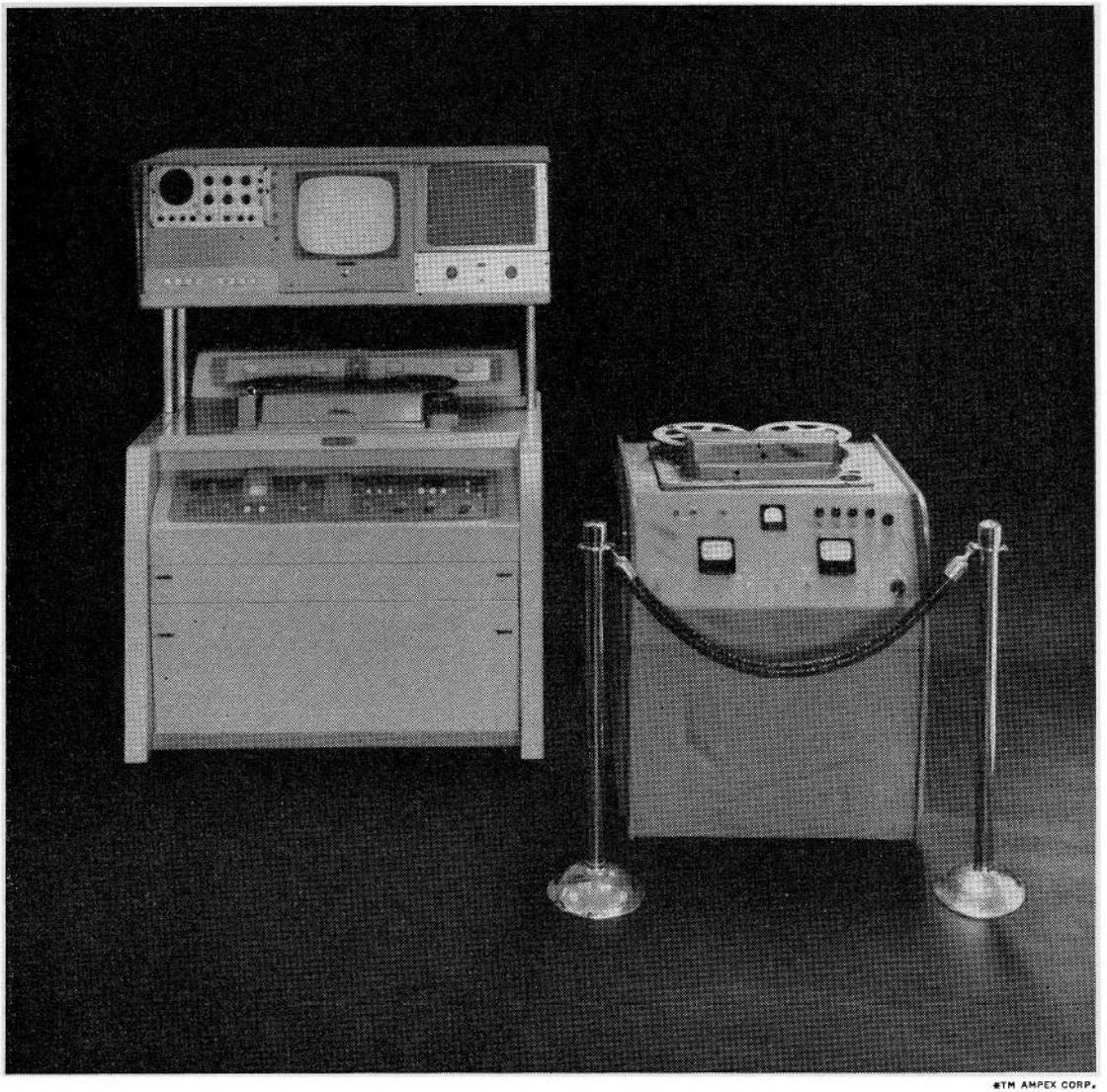
This switch changes recording standards instantly

Now—manufactured by Ampex Electronics Ltd. in Great Britain—the 50-cycle Ampex Universal 351 professional audio tape recorder/reproducer instantly switchable between CCIR and NAB recording standards. This equalization feature means programs can be recorded for exchange with a single recorder, profitably extending the usefulness of the recorder in broadcasting and other professional recording applications. Offering 14 voltage taps between 90 and 250 volts, the Universal 351 recorder operates at peak efficiency over the ranges specified, ensuring consistently superior service over thousands of recording hours with minimum maintenance time and maximum operational economy. Available in console, portable, and rack configuration, or monophonic or stereophonic, the Ampex 50-cycle Universal 351 can be mounted to suit individual requirements. Its specifications demonstrate why the 351 series is the standard for monophonic and stereophonic broadcasting over much of the world.



Write to: Ampex International S. A.
1 Rue des Pilettes, Fribourg, Switzerland

AMPEX



*TM AMPEX CORP.

Experience.

Five years worth. It shows in the advanced VR-1000C VIDEOTAPE* television recorder. The other is one of the earliest Ampex working models. Only five years separate the two. But that time gave Ampex the experience to produce more than 700 VIDEOTAPE television recorders which operate in stations on five continents and in 15 countries. Progress in television recording depends on Ampex experience. With world-wide distribution of VIDEOTAPE television recorders, Ampex has established a similar pattern of service. Ampex engineers make installations and are available always for consultations and assistance. They can demonstrate how shows taped on an Ampex can be exchanged with any other Ampex-equipped station operating on the same line standard or, by means of INTERSWITCH*, on any of the world's four standards. Major television networks and independent stations all over the world have taken advantage of Ampex experience. Among them are CBS, ABC, CBC, ATN, and the BBC. Their confidence has won for Ampex its international leadership in magnetic tape technology. For a list of Ampex-equipped stations in your area, and complete details, write: Ampex International S.A., 1 Rue des Pilettes, Fribourg, Switzerland.

AMPEX

AIR EXTERNAL SERVICES PUBLICATIONS

For overseas listeners to the short-wave transmissions of All India Radio, INDIA CALLING, a monthly programme journal in English, provides a service of advance programme information supplemented by some of the best broadcast talks on life in India today. It is published in three illustrated editions – Eastern, Western and European.

For listeners in West Asia, there are IDHAT-EL-HIND in Arabic, SADA-E-HIND in Persian and D'HIND AWAZ in Pushtu.

For East Asia, there is SUARA PENGHUBUNG published in Bhasa Indonesia and programme bulletins for Burmese, Chinese and Tibetan speaking listeners.

The journals are supplied free of cost to listeners in foreign countries. Requests may be forwarded either through the Indian diplomatic missions or direct to

THE DIRECTOR OF
EXTERNAL SERVICES
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P. O. BOX 500, NEW DELHI

DA 59/92

The above remarks apply to normal v. h. f. transmission, but conditions sometimes occur which permit v. h. f. signals to be propagated to distances far beyond the radio horizon.

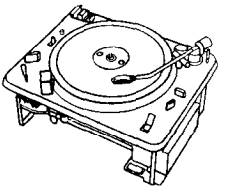
At times near sunspot maximum, when the F_2 layer of the ionosphere is particularly highly ionised, it may become capable, during daytime only, of reflecting radio waves in the v. h. f. band, and so of propagating them to very long distances, as it normally does with waves in the h. f. band. During years near sunspot maximum this type of propagation is more likely during the equinox and winter than during the summer, and to apply more particularly to the lower frequencies in the VHF band, say to frequencies below 60 Mc/s. Reception of such signals may occur as far as 12,000 km from the transmitting station, or even further, and although good sound reception may occur it is unlikely that good pictures will be received, owing to the unstable nature of the F_2 layer. Since we are now some 3 years past sunspot maximum it is unlikely that this kind of reception will occur very frequently during the next years.

However, VHF reception at distances between 800 and 2300 km can still occur by ionospheric reflection, but in this case by highly ionised patches which form in the E layer, and are known as Sporadic E. These are liable to occur, not only during sunspot maximum years, but during any year, but much more frequently during the four months centred on the summer solstice than during other months of the year. In winter they hardly ever occur and, in the summer, are much more frequent during daylight hours than during the night. Even in summer daytime they have no very set behaviour, but occur at odd times and last perhaps half-an-hour up to a few hours. Propagation by Sporadic E can occur on frequencies in the VHF band up to about 100 Mc/s, but usually only to the distances mentioned above. Good sound signals can be received and perhaps fair pictures may be obtained for short periods.

Lastly propagation of VHF signals to distances beyond the normal range can occur by "abnormal tropospheric propagation". This occurs when certain meteorological conditions prevail in the lower atmosphere, and particularly during anticyclones and periods of "settled" weather. Under these conditions refraction or "scattering" of the radio energy in VHF waves can take place at layers of air in the lower atmosphere which have different electrical characteristics from those of the air nearer the ground. Thus the VHF waves which are refracted or scattered from a moderate height above ground can travel to abnormally long distances, i. e. up to 800 km or more from the transmitting station. The meteorological conditions necessary for this type of propagation can occur at any time of day or season, and may last for many hours, though they are somewhat more prevalent in summer than during other seasons. V. H. F. reception of such signals may be subject to some fading, but it can cover all the VHF and television frequencies. Sound reception may be good, and picture reception fair, at the extended range whilst such conditions last.

There is now the exciting possibility that, in the near future, it will be possible to conduct regular *long-distance* communication on VHF or even light frequencies via satellites which are simultaneously»visible« at two widely separated earth points. The satellites could be either passive i.e. used merely asa reflecting medium, or active i. e. possessing their own transmitters powered by solar batteries and capable of being actuated from the earth.

BROADCAST STUDIO EQUIPMENT



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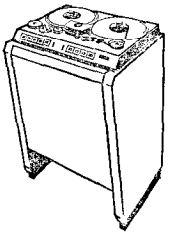
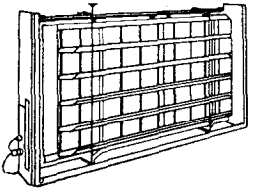
EMT 930

High-precision Transcription Turntables with dynamic pick-up, start-stop brake for remote controlled operation.



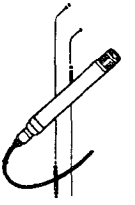
STUDER C 37

Magnetic Tape Recorder for Studio and outside broadcast application. Special features: Balance for constant tape tension, remote control of all operations.
Tape speeds: 7,5 and 15 i. p. s.



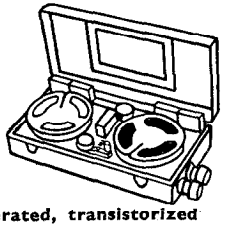
EMT 140

Reverberation Set for artificial echo effects with reverberation time adjustable between 1 and 5 seconds.



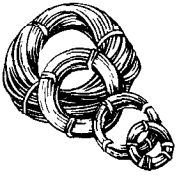
Dynamic and Condenser Microphones

for studio operation with directional and omnidirectional radiation characteristic.



STELLAVOX

Professional battery-operated, transistorized magnetic tape recorder.
Tape speed 7,5 i. p. s. Weight only 4 lbs.



Special Audio Frequency Cables

for studio purposes double screened, and especially HF proof.

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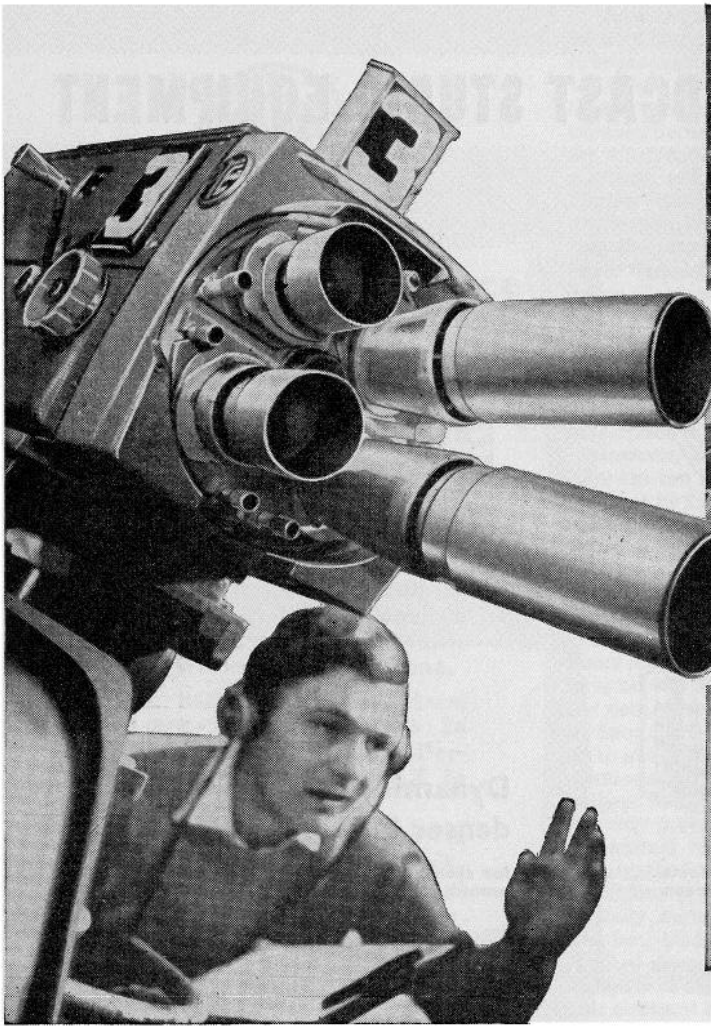
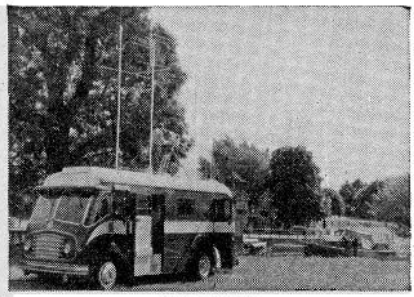
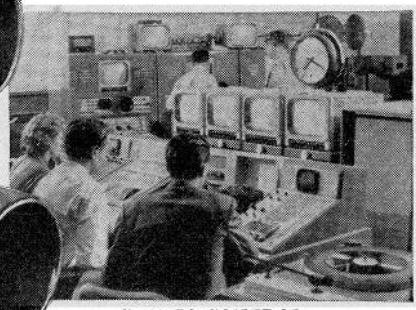
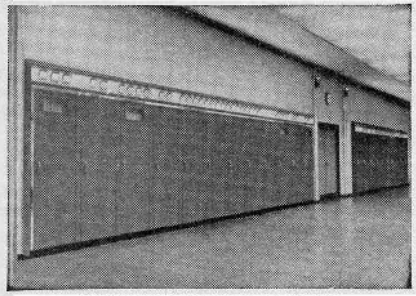




O.B VAN



STUDIO CONTROL



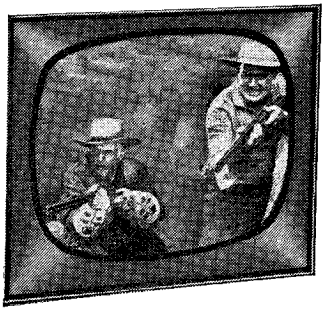
TRANSMITTER STATION

BUILDS COMPLETE STUDIOS

to transmit the programmes

Many countries owe their first glimpse of TV to the resource and enterprise of Pye. Today Pye transmission equipment is used by the television services of more than twenty-eight nations throughout the world. Even in such countries as America and Canada, where television is highly developed and keenly competitive, the Pye product is increasingly in demand. The company's pioneering work in the field of TV transmission and the succession of major developments which they have introduced have given Pye a place of leadership in the industry.

For full technical details write to Pye Ltd., Sales Dept., TV Transmission Division, Cambridge, England.



...and a wide range of domestic sets to receive them

Pye has also pioneered many of the outstanding advances in the design of domestic television receivers—such developments as the first transformerless TV, Automatic Picture Control, 13-channel tuning and the printed circuit. In many countries throughout the world the nightly TV programme is being received by Pye sets which benefit from the unsurpassed wealth of experience gained by this company in every field of radio and television. Today, the Pye trademark is accepted throughout the world, by producer and viewer alike, as a guarantee of quality, performance and reliability.

Pye Limited • Export Division • Cambridge • England

SOLAR ACTIVITY IN 1961

By Prof. Dr. M. Waldmeier, Director of EIDG. STERNWARTE, Observatoire Astron. Federal Zürich.

Prof. Dr. M. Waldmeier

The propagation of short radio waves is subjected to a diurnal, as well as to a seasonal variation, and in addition it is influenced by the year-to-year changes of sunspot activity. This solar activity shows a rather regular 11-year period. Its last maxima were recorded in 1937.4, in 1947,5. and in 1957.9, and the minium years were 1944 and 1954. Having taken regular measurements of the critical frequencies from vertical soundings for about 25 years, it has been found that the upper limit of the reflected frequencies increases in accordance with the degree of sunspot activity and amounts to about twice the value at sunspot maximum as at sunspot minimum. For this reason the short-wave stations change their wave-lengths in the course of the 11-year sunspot cycle. Considering that for nearly three cycles parallel observations of the Zurich Sunspot-Numbers and the critical frequencies have been available, the most favourable frequencies may be forecasted, supposed that we are able to predict the sunspot-numbers. But, only after having found important features of the sunspot variations it has become possible to give predictions of the sunspot-numbers. In 1935 the author detected some of the laws governing the solar activity, which enabled him to predict the course of sunspot activity in the years ahead. The predicted maximum value for 1937 was 124, whereas the highest smoothed relative-number amounted to 119, for 1947 the predicted value was 139 and the observations gave 152, and for the maximum in 1957 the prediction was $\geqslant 170$, whereas according to the observations the relative-number amounted to 201. As regards the last maximum its prediction was extremely difficult, considering that this cycle showed many anomalies and, in addition, during the whole 250 years of records there never occurred such an intense maximum. It is hardly necessary to mention that more accurate predictions can be given for shorter intervals. For many years the Swiss Shortwave Service emits regularly the daily relative-numbers for the expired month as well as predictions for the coming six months. The present emission-time-table is as follows:

Emission-times of the Sunspot-Relative-Numbers by the Swiss Broadcasting Corporation: Valid from 1. 11. 1960 to 30. 4. 1961.

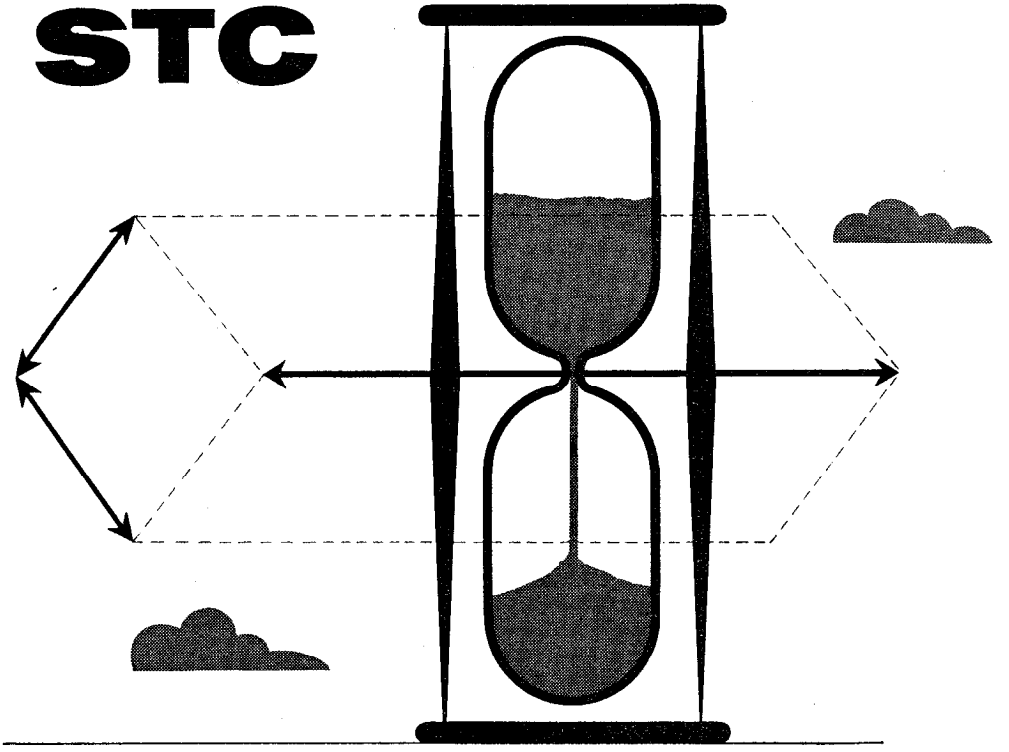
Destination of Emission	Day of the month	Universal time	Wavelength		
England and Ireland	4th	18.50	41.61	31.43	
North America	5th	01.35 04.20	48.66	31.46	25.28
Australia, New Zealand	5th	07.20 09.05	25.28	16.87	13.94
South-East Asia, Japan	5th	12.50	16.87	13.94	
India, Pakistan, South Africa	5th	14.50	16.87	13.89	
Near East	5th	16.50	19.59	13.89	
Spain and Portugal	4th	21.15	31.43	25.28	
South America	4th 5th	23.30 03.45	31.46	25.28	19.59

At the beginning of the year 1961 the smoothed sunspot-number will be about 95, and it will decrease to about 72 by the end of the year. When we consider that there are sunspot maxima, which scarcely reach values of 50, the solar activity in the year 1961 is in fact still rather high. It is supposed to be higher than in the year 1955, but lower than it was in 1956. Accordingly, the conditions of short-wave transmissions will be between those of the years 1955 and 1956.

DX-PROGRAMMES

AUSTRALIA: "R. Australia". "Australian DX'ers calling". Sat. 22.00, 07.15 (Apr.-Sept.), 08.45 (Oct.-March), 13.30, 16.00.
FINLAND: "Finnish Broadcasting Co. DX-Prgr. First and third Fri. of the month: 16.00 to Europe; First and fourth Sat. of the month: 11.30 (April-Sept.: First and third Fri. of the month: 20.30) to No. America.
DENMARK: "Danish State Radio". A special DX-bulletin is broadcast on Tues. (EST) at the end of the two No.Am. prgrs. (Wed. 02.00, 03.30) and Thurs. 09.50, 14.50.
GERMANY: "Deutsche Welle". Every 2nd Mo. in the month 08.00, 11.00, 14.00, 17.15, 18.30, 20.30, 23.45, 01.15, 03.00, 04.15. – **"R. Berlin International".** First Mo. of the month at 17.00 (Swedish).
HAITI: "St. 4VEH". Tues. 02.45, Wed. 10.45.
HOLLAND: "R. Nederland": Tues. 10.12, 14.12, 21.47, Wed. 01.42.
JAPAN: "R. Japan": Every 3rd/5th Sat./Sun. of the month: Sat. 06.00, 08.05, 10.15, 12.15, 15.15, 18.25, Sun. 01.15. – **"Nihon Shortwave Broadcasting Co.". "DX-News"** Sun. 15.25–15.45 (in Japanese only).
NEW ZEALAND: R. New Zealand. 1st Wed. of the month: 06.40, 10.30.
SWEDEN: "R. Sweden". "Sweden calling DX'ers". Every Mo. in all English & French language broadcasts. Every Wed. in the German broadcast. Also in Spanish (once monthly) and Portuguese (Wed.).
SWITZERLAND: "Swiss Shortwave Service". Every Fri./Sat. (in all English transmissions): 07.45, 09.30, 13.15, 15.15, 17.15, 19.15, 02.00, 04.45.
U.S.A. "R. Boston" (WRUL). 3rd Sat. of the month 20.15, 23.45.

STC



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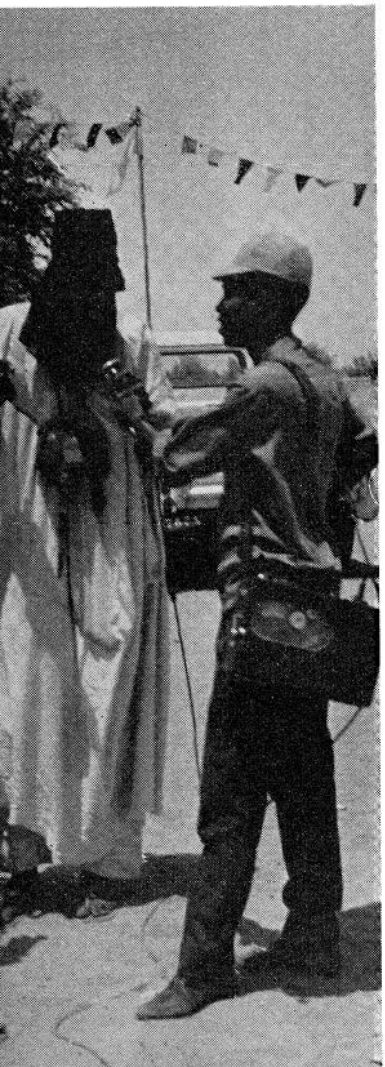
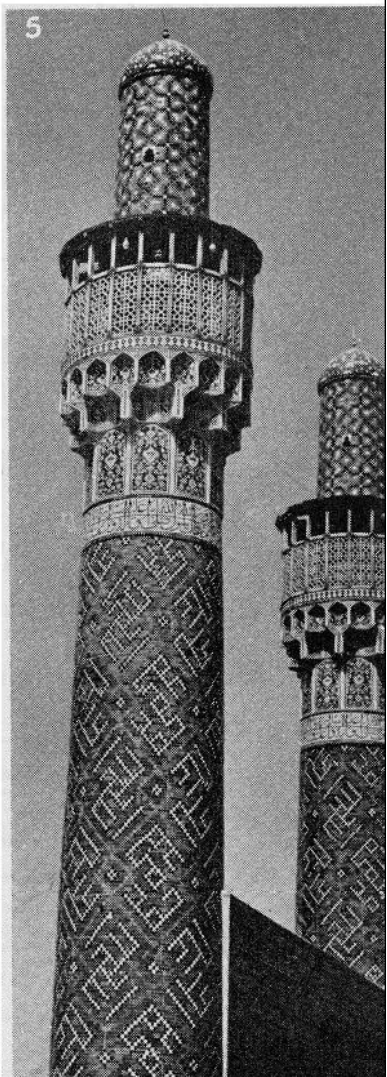
PICTURES OF THE WORLD

1. **Nippon Hoso Kyokai, Japan:** Japanese entertainments – a scene of a "Kabuki" play.
2. **Radio Clube de Moçambique:** Miss Evelyn Martin – English transmissions.
3. **Niger:** Interview of a Touereg in Radio Niger.
4. **Australia:** Three albino koalas were found in the mountains of northern New South Wales, 1948, and taken to Sydney's famous Taronga Park Zoo. The koala is normally grey-furred with brown eyes. The albinos have pink eyes and poor sight.
5. A Mosque in Isphahan, Iran.
6. **Radio Nederland Wereldomroep:** Catherine Valente, the popular German pops' singer talking to Jerry Cowan of Radio Nederland's English section.





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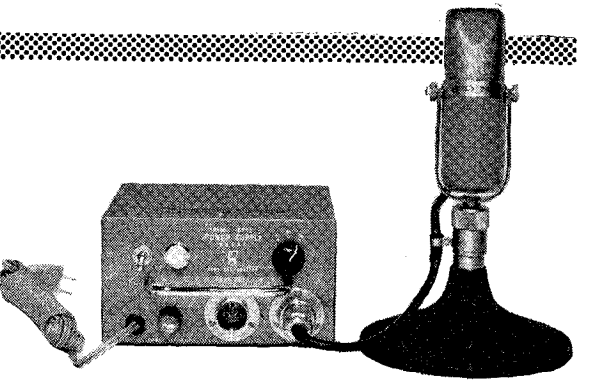

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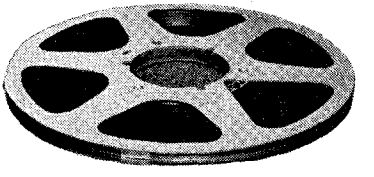

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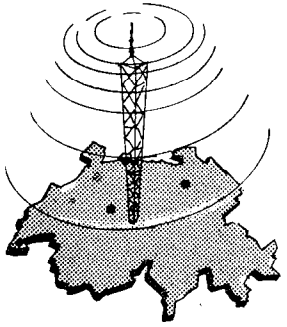
- Leaders of State Churches and Free Evangelical Churches in 58 nations have given their support to the project.
- The Station will be under the supervision of an Interdenominational European Committee.



Details regarding this project are issued in "epi news service" (German, French, Italian, Dutch and Spanish editions are also available). For further information and FREE Radio Brochure, write to:

E. P. I. – P. O. Box 392, B E R N E 2 (Switzerland).

TABLE OF THE MOST SUITABLE METRE BANDS

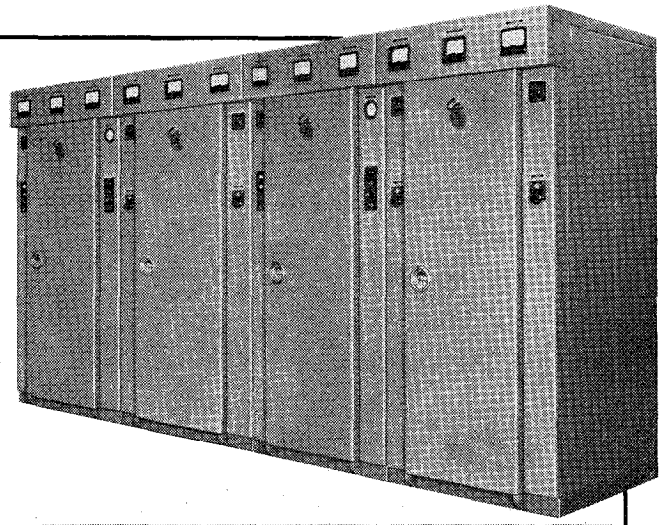
FOR BEST SHORT-WAVE RECEPTION IN EVERY PART OF THE WORLD AT VARIOUS TIMES OF THE DAY IN 1961.

BY ROGER LEGGE, USA. Some adjacent listening/transmissions areas having similar propagation characteristics have been combined. The figures in the table can be regarded only as average figures.

Example: A listener located in the eastern part of No. Am. wishes to hear a station in the So. part of Af. on a Jan. evening (21 local time). By following the horizontal column starting at No. Am., East, on the left until it meets the vertical columns under the area So Af. Ea. in the section for the months Nov., Feb. on the right, he will come to the figure 25.

THE LISTENER'S AREA	Local time	AREA OF THE TRANSMITTING STATION																									
		MAY – AUGUST									MARCH–APRIL, SEPT.–OCT.									NOV.–FEB.							
		Eu. No. Af.	ME.	N.Am. (Ea)	N.Am. (We)	So. Am.	So. Af.	So. As.	Ea. As.	Au.	Eu. No. Af.	ME.	N. Am. (Ea.)	N.Am. (We.)	So. Am.	So. As.	So. Af.	So. As.	Ea. As.	Au.	Eu. No. Af.	ME.	N.Am. (Ea)	N.Am. (We)	So. Am.	So. Af.	So. As.	Ea. As.	Au.
EUROPE + NO. AFRICA	07	25	19	25	25	25	19	16	16	25	25	19	31	31	31	19	16	13	25	25	19	49	31	31	19	16	16	25
	15	25	19	16	19	19	13	16	16	19	19	19	13	19	19	13	19	19	19	19	19	13	19	16	13	19	19	19
	21	25	19	16	16	19	19	19	19	19	31	25	16	16	19	19	25	25	19	49	31	19	19	19	25	31	31	31
MIDDLE EAST	07	19	31	25	25	25	19	16	16	16	19	31	31	31	31	19	16	16	16	19	31	49	31	31	19	16	16	19
	15	19	31	16	25	19	13	16	16	19	19	31	13	25	19	13	16	16	19	19	31	13	25	16	13	19	19	19
	21	25	31	16	16	19	19	19	19	19	31	41	13	16	19	19	25	19	25	31	49	19	25	19	25	31	31	31
NORTH AMERICA (EAST)	07	19	16	16	31	19	11	19	25	25	13	16	16	31	19	11	25	25	25	19	19	16	31	19	11	25	31	25
	15	16	19	19	16	19	19	19	19	19	19	19	19	16	19	19	19	19	19	19	25	19	16	19	19	25	25	19
	21	25	25	19	16	25	25	19	16	16	31	31	19	16	25	25	19	13	16	31	31	19	16	25	25	25	16	16
NORTH AMERICA (WEST)	07	19	19	16	31	19	31	25	25	25	13	16	16	31	19	31	25	31	25	13	16	16	31	19	31	31	31	25
	15	19	19	19	16	19	25	19	16	16	25	25	19	16	19	25	19	16	16	31	31	19	16	19	19	19	16	16
	21	25	25	25	16	25	25	19	16	16	31	31	31	19	31	31	19	16	16	31	31	31	19	25	31	19	16	16
SOUTH AMERICA	07	13	19	31	25	31	19	19	25	19	13	19	31	31	31	19	25	25	19	13	19	31	31	31	19	25	31	25
	15	13	16	13	13	19	13	13	16	19	13	16	13	13	19	13	16	16	25	13	16	13	13	19	13	19	19	25
	21	19	19	16	16	31	25	19	16	16	19	19	16	16	31	31	19	16	16	25	31	19	16	31	25	25	16	16
SOUTH + CENTRAL AFRICA	07	19	19	19	16	19	31	16	16	13	19	19	25	16	31	41	16	16	13	25	19	25	19	31	41	16	16	13
	15	13	16	13	19	19	31	13	19	19	13	16	13	19	19	31	13	19	19	13	16	13	25	19	31	13	19	19
	21	16	19	13	13	19	41	16	16	19	16	19	13	13	19	41	16	16	19	19	19	13	13	19	41	16	16	19
SOUTH ASIA	07	19	31	19	19	19	25	31	19	16	25	31	25	19	19	25	31	19	16	31	31	31	19	19	25	31	19	16
	15	13	16	19	25	25	13	19	19	19	13	16	25	25	13	19	19	19	13	13	16	31	31	25	13	19	19	19
	21	13	16	13	19	19	16	19	19	25	13	16	13	25	19	16	19	19	25	13	16	13	31	19	16	19	19	25
EAST ASIA	07	19	19	19	13	19	19	19	19	19	25	19	25	13	19	19	19	19	19	31	19	31	13	19	19	19	19	19
	15	13	19	19	13	19	16	19	19	16	13	19	25	16	19	16	19	19	16	13	19	25	19	19	16	19	19	16
	21	13	16	16	31	31	19	19	25	31	13	16	13	31	31	19	19	31	31	13	16	13	49	31	19	25	31	31
AUSTRALIA + NEW ZEALAND	07	19	19	13	16	19	25	19	19	25	25	25	13	21	19	25	19	19	25	31	25	13	16	19	25	19	19	25
	15	19	16	19	19	25	19	19	19	19	25	16	19	19	25	19	19	19	19	31	16	25	19	25	19	19	19	19
	21	13	16	16	31	25	19	16	19	31	13	16	16	31	25	19	16	19	31	13	16	16	31	25	19	16	19	31

PROVEN PERFORMANCE



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TYPE 420A

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HOW TO USE THE WORLD RADIO TV HANDBOOK

The World Radio Handbook is designed to help the international radio listener obtain maximum enjoyment from his receiver. For the beginner, it will serve as an introduction to the thousands of stations broadcasting in all parts of the world. For the experienced listener, it will be an invaluable guide to program services of specific countries and an able assistant in identifying stations.

For many years international radio, particularly in the short-wave range ,has been a principal means of entertainment and enlightenment in some parts of the earth, such as the Pacific islands, sections of Africa and Latin America. In other areas, such as Europe, world broadcasting has been one of several major communications media.

The principal contents of this book are divided into two sections: 1) a listing by country of stations, programs, times, call signs, etc.; and 2) a listing by frequency and wave length of the main international long-, medium- and short-wave stations.

The first section, beginning on page 67, is divided into eight geographical categories: Europe, Africa, the Near East, the East, the Pacific, North America, Central America and South America. Countries are arranged alphabetically in each geographical category. The information on the broadcasting services of each country includes:

Local time in relation to Greenwich Mean Time; principal **Language or Languages** of the country; number of **Population;** total number of **Receivers in use** and in most cases the **Power** used.

Names and addresses of broadcasting companies (commercial broadcasts are identified as such).

Names and titles of leading officials of each company.

List of AM and FM stations operated by each company with call signs, frequencies, wave lengths and power expressed in kilowatts.

Every radio station whether in the long-, medium- or short-wave range, has an identifying call sign of three to five letters or a combination of letters and figures of which the first, or first two, denote nationality in accordance with the international list of prefixes (See page 64). Some stations - those in the United States, for example – always use these call signs when identifying themselves. Others do not.

Since many broadcast stations also operate FM and TV stations, a common practise is to authorize the use of the call letters of the AM stations followed by a dash and FM or TV, as the case may be.

Short-wave stations usually employ directional aerials to beam their programs to particular areas on frequencies and at times calculated for best reception. The reception areas give their names to the services, e.g.: European Service, Near Eastern Service, Latin-American Service, Far Eastern Service, etc. The language employed is that of the listeners in the area to which the broadcast is directed. The best reception usually is obtained from transmissions directed to your area. However, there is a considerable amount of overlapping between many service areas and, therefore, it is often possible to obtain good reception of programs beamed to adjacent areas. Short-wave propagation conditions change continually because of influences of daylight and darkness, seasonal considerations and solar activity. Consequently, good reception requires waveband changes from time to time.

Long- and medium-wave AM stations are divided into three categories: 1) **Main stations,** which are so powerful they generally can be received throughout the country of origin and often in neighboring countries. Most broadcasts emanate from these stations. – 2) **Regional stations,** which can be received only within a certain region of a country. Broadcasts normally consist partly of origin programs and partly of re-transmitted programs of main stations. – 3) **Relay and local stations,** which mostly re-transmit main-station programs. These stations have low power ratings and can be heard only within a limited area.

FM stations constitute another category. They give listeners an interference-free reception, but they have a short radius and are considered local stations.

Frequency and wavelength. Frequencies are measured in kilocycles per second (kc/s) and megacycles per second (mc/s). A kilocycle is 1,000 cycles; a megacycle is 1,000,000 cycles. Wavelengths are measured in metres (m) and divided into the following groups: long waves, medium waves and short waves (15–30,000 kc/s). The FM band (88–108 mc/s or 87.5–100 mc/s in European System) and TV band identified by frequency rather than wavelength are in the very high frequency (VHF). range: **Band I:** European 41–68 mc/s. American: 54–88 mc/s. **Band II:** European 174–223 mc/s American 174–216 mc/s.

An FM broadcast requires a channel 20 times wider than that used for AM, but a TV transmission of combined picture and sound needs about 6 times the spectrum space occupied by the entire AM medium wave broadcast band.

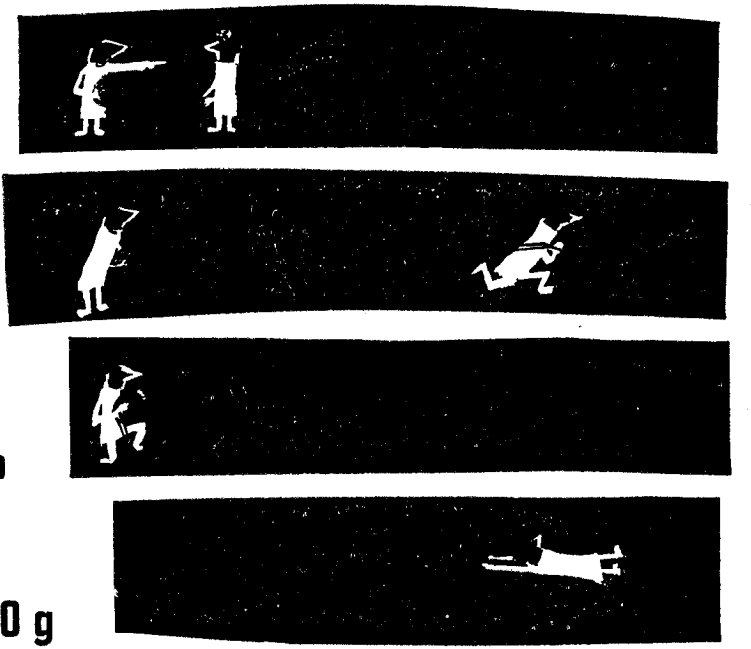
Every radio emission has a quantity measurable in both frequency and wave length and since the velocity of propagation in space, is in round figures, 300,000,000 meters per second, any one of the quantities-meters, kilocycles or megacycles – is readily converted into the other forms by means of the following formulae:

Meters to Kilocycles
Meters = 300,000/frequency (kc/s)
Kilocycles to Meters
Kilocycles = 300,000/Wavelength (meters)

Meters to Megacycles
Meters = 300/frequency (mc/s)
Megacycles to Meters
mc/s = 300/Wavelength (meters)

Continued page 52

Withstands shock loads up to 3000 g



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These outstanding electro-acoustical properties are achieved by the magnetic orientation.

In addition, BASF MAGNETIC RECORDING TAPE LGR is unaffected by humidity and has unlimited storage stability. It is the ideal tape for high-fidelity studio and archives recordings.

For tape recorder adjustments, BASF also supply DIN Calibration Tapes for 15, $7^1/_2$, and $3^3/_4$ i. p. s. tape speeds. These tapes have a reference tone, a section for head alignment, a frequency range section to adjust the response channel, and an unrecorded section to determine the optimum bias and the input equalization.

1/936

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HOW TO USE THE WRH *continued from page 50.*

The majority of international short-wave broadcasts will be found on the following meter bands (m. b.): 49 m.b., 41 m.b., 31 m.b., 25 m.b., 19 m.b., 16 m.b., 13 m.b., and 11 m.b. The 31 m.b., 25 m.b., 19 m.b. and 16 m.b. are the most active of the eight bands and some of the most rewarding programs are found here. However, many short-wave stations operate outside these wave lengths. The 60 m.b. and 80 m.b. are used for local broadcasting (reception over relatively short distances), particularly in the USSR. South and Central America, Canada, Australia and in Central Africa, where short-wave broadcasting is an integral part of national domestic broadcasting.

In many parts of the world short-wave transmissions are picked up and re-broadcast from local stations or short-wave relay stations. In many territories, there are wire broadcasting services where the transmissions are centrally received and are then sent out by wire distribution systems.

Many programs are broadcast simultaneously from several transmitters on different wave lengths, enabling you to select the band most clearly audible in your area. If reception on one wave length is poor, you should examine conditions on others employed by the same station. On page 48 is a table of the most suitable bands for short-wave reception in every part of the world at various times of day throughout the year. In an article on page 34 T. W. Bennington tells you about the reception conditions of the different bands during 1960.

Program times used in the listings are based on the 24-hour clock. Midnight is 00.00 hrs., 3 a.m. is 03.00 hrs., 9 a.m. is 09.00 hrs. and midday is 12.00 hrs. Then, instead of starting another 12-hour cycle (p.m.), under the 24-hour system the hours increase until midnight. Thus 3 p.m. is 15.00 hrs., 10 p.m. is 22.00 hrs., and so on until 23.59 hrs. (11:59 p.m.) is reached and a new 24-hour cycle starts. The system eliminates any possible confusion between times a.m. and times p.m. You can obtain the times in which transmissions of a particular programme and/or language are transmitted by running over the pages of the World Survey of Sound Broadcasting.

Time conversion. All programs are listed in GMT. To find the time when a program can be heard in your area it is necessary to equate both your local time and the time at broadcast point with Greenwich Mean Time (GMT). By referring to the World Time Table on page 62 you can determine how many hours your local time is ahead or behind GMT. The program listing for each country gives you the same information as regards point of broadcast. Suppose you live in Ottawa (5 hrs. behind GMT) and want to hear a program from Tokyo (9 hrs. ahead of GMT). The broadcast is at 16.00 hrs. local Tokyo time. This reduces to 07.00 hrs. GMT (16.00 hrs.—9 hrs. = 07.00). Remaining problem: when it's 07.00 hrs. GMT what will it be in local Ottawa time? Since Ottawa time is 5 hrs. behind GMT, this figure is subtracted from 07.00 hrs. and gives you 02.00 hrs. So to hear the program broadcast from Tokyo at 16.00 hrs., you must tune in at 02.00 hrs. Ottawa time. Daylight saving time adds an hour to local time, and the dates it is in effect in various parts of the world are noted in the World Time Table. If you are listening at sea you should consult the radio-officer for the difference between ship time at your position and GMT.

Daily programs. Under this heading in the listings you will find information concerning the total broadcasting hours on the different frequencies employed and in the different languages by a particular station, as well as surveys of the news and in many cases other fixed programs of interest such as folklore music, mailbag, language lessons, weather reports, time signals, etc.

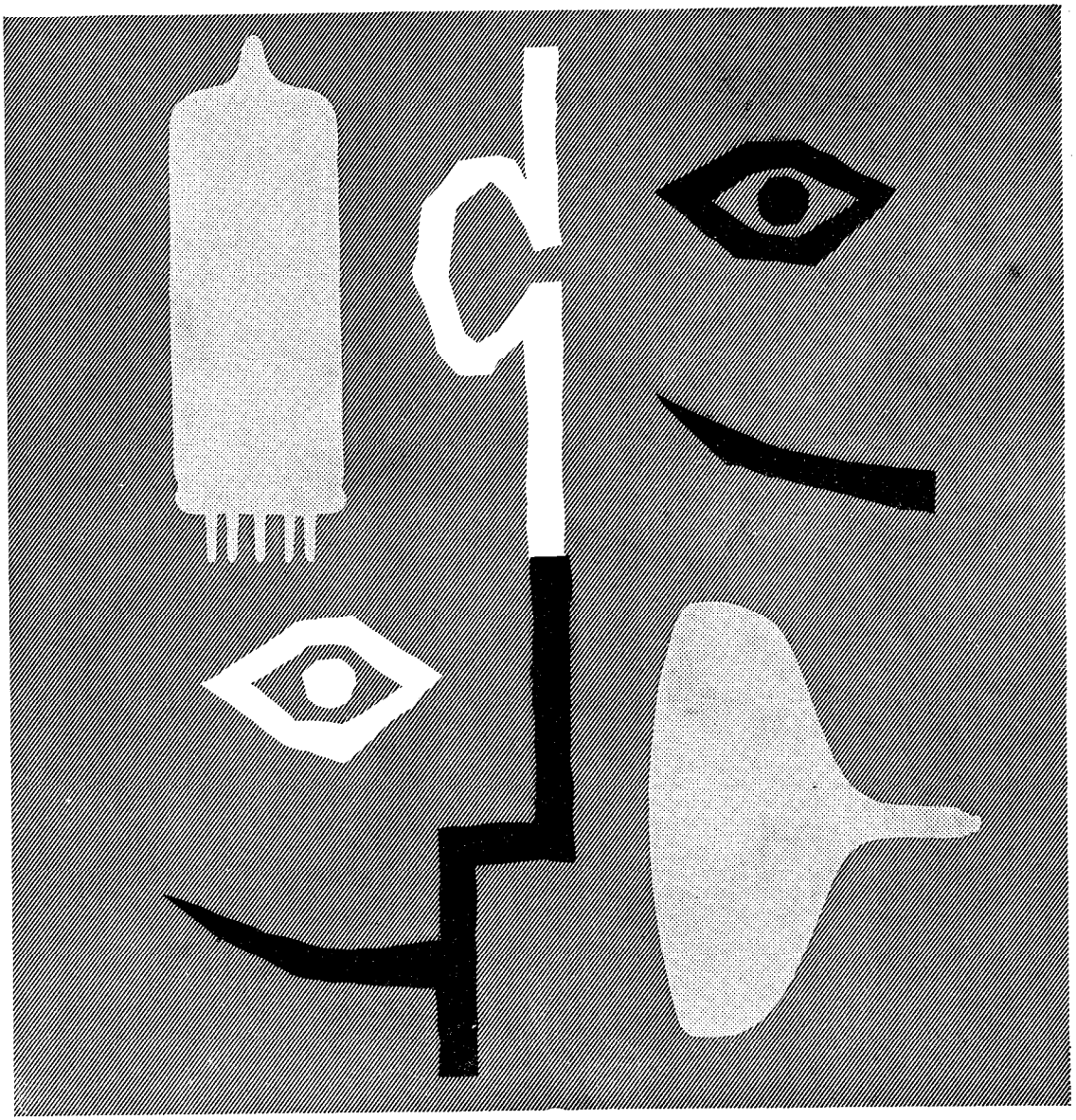
Identification of stations. Language alone is not conclusive evidence of a station's nationality since international stations often beam broadcasts to foreign areas in the language of the listeners. Hearing a program in French or Spanish, for example, does not necessarily mean the station is French or Spanish. To make sure of correctly identifying a station it is necessary to wait for the identification announcement which every station broadcasts at regular intervals. Call signs and other means of identification are given in this book for practically all stations listed.

For identifying stations it also is important to know the signals used during the intervals between programs. Under each station, therefore, you will find an indication of the type of signal used, and in many cases a reproduction of the musical notes of the signal. Quite often one transmitter uses several wavelengths, as noted above, and employs different aerials designed to radiate signals to the best advantage in respect of each service. The various call signs sometimes are used in these instances to identify individual wavelengths.

The second section of this book lists long-, medium- and short-wave stations according to frequency and wavelength. The information includes call signs, location of station or stations on a given frequency and station power in terms in kilowatts.

How to identify a station by frequency or wavelength:

When you come across a station that is unknown to you, proceed as follows for identification: read the approximate frequency or wavelength indicated on your dial. Next, turn to the table: Short Wave stations of the world and—" and ascertain what stations are working in that neighbourhood, When you have narrowed the field to one or two possibilities and have noted details of the program and language, check these data against the program listings to determine whether the station is scheduled to be broadcasting at that time and the type of program listed. For confirmation it is advisable to wait for the station announcement or interval signal. *Continued page 54*



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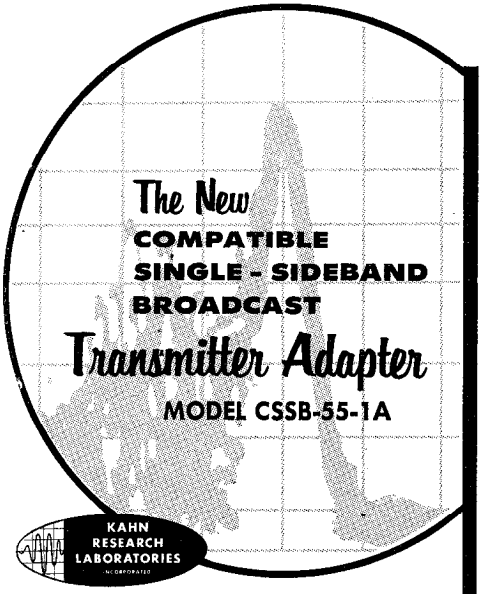

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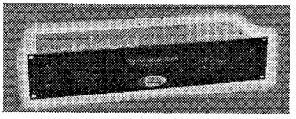

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HOW TO USE THE WHR *continued from page 52*

Verification by QSL-cards. As indicated in the program listings for the various countries, many stations are interested in receiving reports from listeners about their transmissions. These stations acknowledge reports by sending listeners a QSL-card (verification) or letter. Most listings indicate whether a station uses QSL-card or answers by letter, and when return postage is required this is stated also. Return postage should be sent in the form of an International Reply Coupon, obtainable at post offices in the countries of the International Postal Union. Reports should be sent to the station address as given in the program listings. They can be written in English in most cases, but Spanish is preferred by South and Central American stations.

The "How to Listen to The World" (see adv. page 01) gives all necessary information about how to write reports to stations.

International television stations and programs for all parts of the world are listed in the section of this book beginning on page. 186

Other useful information includes a list of stations devoted to time signals and frequency-standards broadcasts on page 58, an index to broadcasting organizations on page 10 and religious broadcasting organizations incl. religious stations on the pages. 14, 16, 18.

The reception reports mentioned above are particulary useful to radio engineers in selecting the most suitable wave lengths for broadcasts beamed to your area. Reports are more meaningful if the SINPO or "555" code is used. The codes are as follows:

SINPO-code

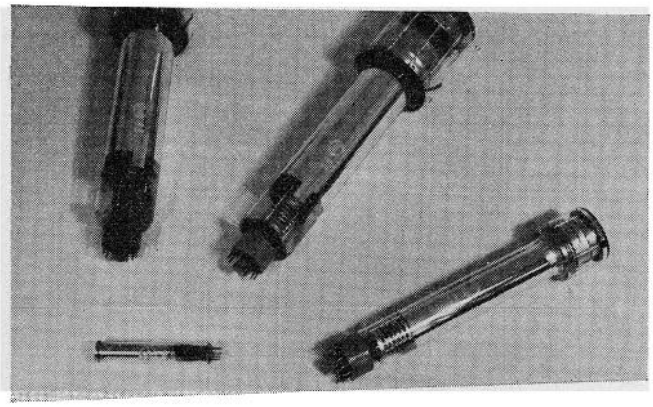
S	I	N	P	O
5 excellent	5 nil	5 nil	5 nil	5 excellent
4 good	4 slight	4 slight	4 slight	4 good
3 fair	3 moderate	3 moderate	3 moderate	3 fair
2 poor	2 severe	2 severe	2 severe	2 poor
1 barely aud.	1 extreme	1 extreme	1 extreme	1 unusable

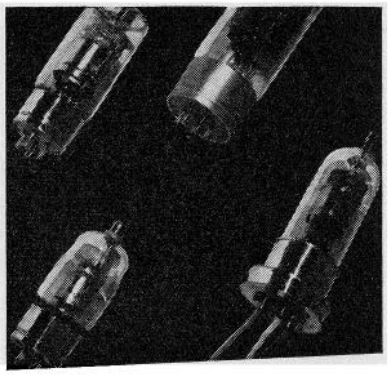
S = Signal strength. I = interference. N = noise.
P = propagation disturbance. O = Overall merit.

"555"-code

S	I	O
0 inaudible	0 very strong	0 nil
1 very weak	1 strong	1 very poor
2 weak	2 fairly strong	2 poor
3 fairly strong	3 weak	3 fair
4 strong	4 very weak	4 good
5 very strong	5 none	5 very good

Example: 543 means a very strong signal with weak interference reducing the overall reception merit to fair.





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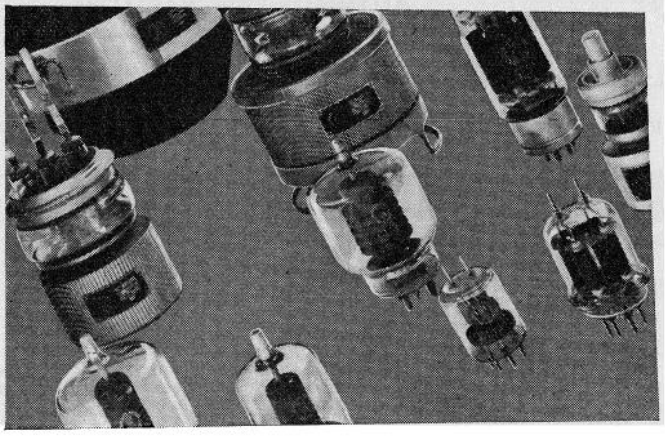

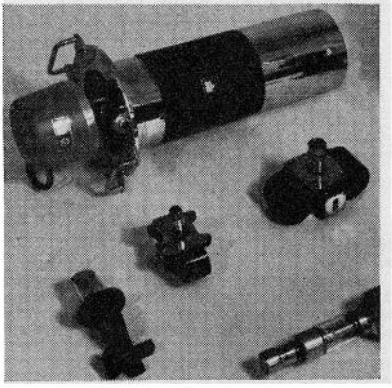

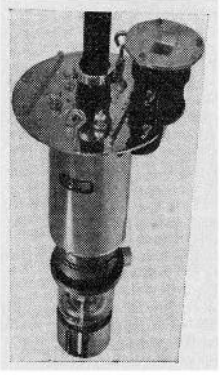

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ABBREVIATIONS:

Int. Sig. = Interval Signal
Addr. = Address
ABC = Australian Broadc. Comm.
AC = Alternating electrical current
AD. = Advertising
Adm. = Administrator.
Adv. = Advertisements.
Af = Africa
AFN = American Forces Network
AFRTS = Armed Forces Radio and Television Service
AIR = All India Radio
Am = America
A.M. = Amplitude modulation
Ann. = Announcement
Approx. = Approximately
Apr. = April
Apt. = Apartado
As. = Asia
Asst. = Assistant
Au. = Australia
Aug. = August
Av. = Avenue, Avenida
BBC. = British Broadc. Corp.
B.P. = Boîte Postale
BR. = Bayerischer Rundfunk
C = Central
Ca. = Calle
Cal. = California
Cas. = Casilla
CBC. = Canadian Broadc. Corp.
Ch. = Channel
Ci = Ciudad
Co. = Congo
Comm. = Commercial
Corp. = Corporation
C.P. = Caixa Postal
c/s = Cycles per second
D. = Daily
d. = Directional aerial
D.C. = Direct electrical current
Dec. = December
Def. = Definition
R. = Radio
Dept. = Department
Dep. = Deputy
Dir. = Director, Direction
Dir. Gen. = Director General
DX = Long distance
E. = English
Ea. = East
E. C. = Electric Current
E. by R. = English by Radio
Ed. = Edificio
Emis. = Emissora
Eng. = Engineer
Equ. = Equatorial
ERP = Effective radiated power
Eu. = Europe
exc. = Except
exp. = Experimental
F. = French
FCC = Federal Communications Commission
F.E. = Far East
Feb. = February
F.I. = Financing
Fi. = Finnish
Fl. = Flemish
F.M. = Frequency modulation
F.Pl. = Future plans
For. Rel. = Foreign Relations
Fri. = Friday
Freq. = Frequency
G = German
G.D.R. = German Democratic Republic
Gen. Mgr. = General Manager
G.M.T. = Greenwich Mean Time
Go. = Government
Gr. = Greek
h. = *Hour*
H. = Horizontal polarisation
I. = Italian
Inf. = Information
Int. = International
Jan. = January
kc/s = Kilocycles
kW = Kilowatt
L.P. = Leading Personality(ies)
L = Language
L.T. = Local Time
L.N. = Local News
L.L. = Language Lessons
Man. = Managing
M.E. = Middle East (Near East)
Mgr. = Manager
Mo. = Monday
m.b. = Meter band
Mbg. = Mailbag
M.W. = *Medium* Wave
N. — News
Nat. = National
Net. = Network
N.E. = Near East
N.H.K. = Nippon Hoso Kyokai
No. = North
Nov. = November
N.Z. = New Zealand
O. = Owner
occ. = Occasionally
Oct. = October
org. = Organization
P = Portuguese
Pa. = Pacific
Per. = Period
Po. = Population
P.R. = Public Relations
Pro. = Province
Prod. = Production
Pr. = Private
Pr.L. = Principal Languages
Pres. = President
Prgr. = *Programme*
Pub. = Publication
QSL = Verification
Rcvrs. = Number of receivers
Re. = Report
Rdif. = Radiodifusora
Red. = Rediffusion
Reg. = Regional
Rel. = Relay
Rep. = Repeat, Repetition
RIAS = Rundfunk im Am. Sector
R.p. = Return postage required
Rus. = Russian
Sat. = Saturday
Sce. = Service
sched. = Schedule
Secr. = Secretary
Sep. = September
So. = South
So.W. = *South* West
Sp. = Spanish, Spain
St. = Station
Str. = Street
Su. = Summer
Sun. = Sunday
S.W. = Shortwave
SWF = Südwestfunk
Te. = Telephone
Tec. = Technic
Thurs. = Thursday
Tr. = Transmitter, transmission
Tues. = Tuesday
T.V. = Television
UAR = United Arabic Republic
USSR = Union of the Soviet Socialist Republics
V. = Vertical polarisation
V. = Verification
VOA = Voice of America
W. = Weekdays
We. = West
Wed. = Wednesday
Wi. = *Winter*
WI = The West Indies
Wrp. = Weather report

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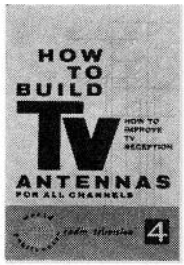

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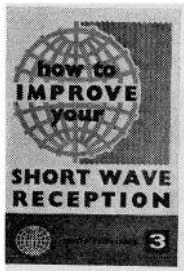

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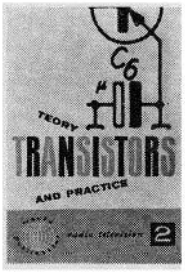

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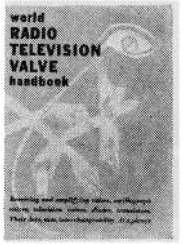

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R. STATION WWY AND WWVH (Go.)

ADDR.: Nat. Bureau of Standards Boulder Laboratories, Boulder, Colorado, USA – WWV: Box 331, Route 1, Lanham, Maryland. **Te.:** GR4-5722 – WWVH: Box 578, Puunene, Maui, Hawaii. – **L.P.:** Chief, R. Broadc. Sce., R. Standards Laboratory: A. H. Morgan. Dir. Tec.: WWV: Fr. Sera. Dir. Tec.: WWVH: S. Katahara.

Standard Radio Frequencies: WWV: 2500 kc/s 120 m 1 kW – 5000 kc/s 60 m 8 kW – 10000 kc/s 30 m 9 kW – 15000 kc/s 20 m 9 kW – 20000 kc/s 15 m 1 kW – 25000 kc/s 12 m 0.1 kW. The Broadcasts are continuous, night and day, exc. WWV is off the air approx. 4 min. each h. The silent period commences at 45 min. plus 0 to 15 seconds, after each h.

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Time signals: The audio frequencies are interrupted precisely three minutes before each h. and successive five min. periods. They are resumed precisely on the hour and each five min. thereafter; they mark accurately the hour and the successive 5-min. periods.

ANN.: "National Bureau of Standards, WWV, when the tone returns Eastern Standard Time is... AM or ...PM". – **V.** by QSL card or letter – **PUB:** Prgr. sched. on request.

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ADDR.: Teddington, Middlesex, Gt. Britain.

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60	5000	10	14.29–15.30	5000	60	0.5	continuous*
2500	120	0.5	– – – *	10000	30	0.5	– *

* exc. for break in transm. from 15–20 minutes past each h.

ANN.: Call sign 3 times in slow Morse. "This is MSF, Rugby transmitting standard radio frequencies on 2500, 5000 and 10000 kc/s, the frequencies being maintained constant within 5 parts in 10^9 by reference to an atomic standard". – **V.** by letter.

ROYAL GREENWICH OBSERVATORY

ADDR.: Time Dept., Herstmonceux Castle, Hailsham, Sussex, England.

The international time signals of the Royal Greenwich Observatory are radiated as follows: 10.00 on 13555 kc/s (GIC33) and 17685 kc/s (GIC37); 18.00 on 10332.5 kc/s (GPB30) and 17685 kc/s.

TIME SIGNAL FROM DOMINION OBSERVATORY, CANADA

ADDR.: Dominion Observatory, Dept. of Mines and Technical Surveys, Carling Av., Ottawa, Ontario. **Te.:** 2-8211, 10 c.4–5606 – **L.P.:** Dir. Adm.: Dr. C. S. Beals. Dir. Tec.: M. M. Thomson.

STATIONS: CHU 3330 kc/s 90.09 m 0.75 kW – 7335 kc/s 40.90 m 3 kW – 14670 kc/s 20.45 m 3 kW – **D.PRGR.:** 24 h. **Time Signals** only, in voice and seconds pulses – **ANN.:** Hours and minutes announced during the last 10 seconds of each minute: "Dominion Observatory, Canada, Eastern Standard Time... hours... minutes" – **V.** by QSL-card. – **PUB.:** Prgr. sched. free on request.

STATION JJY

ADDR.: R. Research Laboratories, Koganei-C, Tokyo, Japan.

Standard Freq.& Time Signals:

2500 kc/s 2 kW 06.59–22.59 — 10000 kc/s 2 kW 24 h. a day
5000 kc/s 2 kW 24 h. a day — 15000 kc/s 2 kW 24 h. a day

The st. off the air every 29–39 min. af the hour. – **V.** by QSL-card.

HBN NEUCHATEL OBSERVATORY

ADDR.: Neuchatel, Switzerland. **Cable:** Observatoire. **Te.:** (038) 5 1238. – **L.P.:** Dir.: J. Bonanomi, W. Schuler.

Standard Frequencies: 2500 kc/s: Sat. 07.05–Tues. 07.00, Wed. 07.05–Fri. 07.00. 5000 kc/s: Tues. 07.05–Wed. 07.00, Fri. 07.05–Sat. 07.00.

STATION LOL

ADDR.: Observatorio Naval del Ministerio de Marina Costanera Sud, Buenos Aires. – **L.P.:** Dir. Gen.: J. Marpegán.

Standard Freq. and Time Signals: LOL:

5000 kc/s 2 kW — 10000 kc/s 2 kW — 15000 kc/s 2 kW

D. exc. Sun. and holidays: 11.00–12.00, 14.00–15.00, 17.00–18.00, 20.00–21.00, 23.00–24.00.

Schedule: 4 min. dash (100 or 440 c/s alternately) beginning at 00.00, 00.05, 00.10 etc. Then 3×LOL in morse followed by ann.

STANDARD FREQUENCY STATION OMA

ADDR.: Prague, Czechoslovakia.

50 kc 5 kW: 24 h. – 2500 kc 1 kW: 24 h. – 3170 kc 8 kW: 18.00–24.00.

NATIONAL RESEARCH CENTRE OF TELECOMMUNICATIONS

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FFH: 2500 kc/s 0.25 kW: Tues. & Fri. 08.30–16.30.

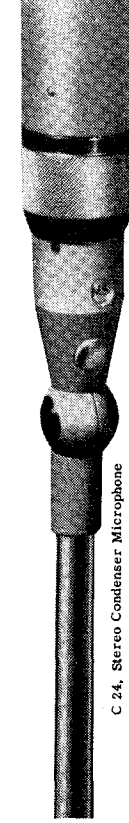
UNION OBSERVATORY SOUTH AFRICA

ADDR.: The Union Astronomer, Union Observatory, Johannesburg.

ZUO: 5000 kc/s 4 kW. – 10.000 kc/s 0.25 kW.

24 h. per day, interrupted from 15 to 25 min. past each h.

MICROPHONES FROM VIENNA



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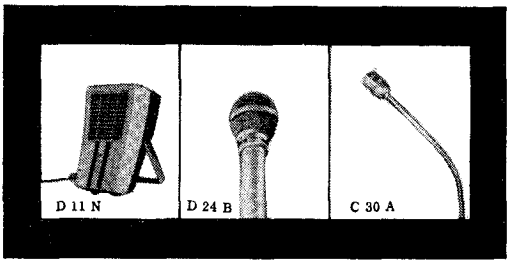


AKUSTISCHE U. KINO-GERÄTE GMBH
WIEN XV, NOBILEGASSE 50 · AUSTRIA
TELEFON: (0222) 92 16 47 TELEX: 01 1839 TELEGRAMME: MICROPHONE WIEN

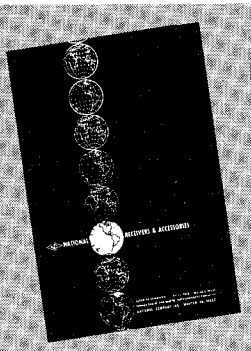
Werbung Grafik Uran Wien

NUMBER OF RADIO- AND TV-RECEIVERS IN USE IN EACH COUNTRY

Country	Po.	R. Rcvrs	TV. Rcvrs
Aden	140.000	32.000	–
Afghanistan	13.000.000	20.000	–
Albania	1.462.000	25.000	–
Algeria	9.800.000	500.000	48.000
Andorra	6.000	2.000	–
Angola	4.530.738	100.000	–
Argentina	20.959.000	5.000.000	460.000
Australia	10.280.742	2.291.519	1.037.395
Austria	6.900.000	2.040.809	163.175
Bahamas	160.000	20.000	–
Bahrain	143.213	12.000	–
Barbados	220.000	20.000	–
Bechuanaland	336.000	2.000	–
Belgium	9.000.000	2.560.000	520.000
Bermuda	44.000	17.100	8.500
Bolivia	3.700.000	250.000	–
Borneo North	425.000	13.425	–
Brazil	61.268.000	4.570.000	1.200.000
Brunei	75.000	7.500	–
Bulgaria	7.620.000	1.383.758[1]	3.500
Burma	19.000.000	100.000	–
Cambodia	4.500.000	8.000	–
Cameroon	3.200.000	100.000	–
Canada	18.084.000	17.720.000	16.940.000
Canary Islands	1.200.000	400.000	–
Cape Verde Islands	182.000	5.000	–
Central African Rep.	1.177.000	4.500	–
Ceylon	9.000.000	295.728	–
Chile	6.944.000	670.000	–
Colombia	15.000.000	3.000.000	150.000
Congo (Franco-African Community)	4.824.000	10.000	–
Congo Rep.	14.000.000	105.000	–
Costa Rica	1.035.000	90.000	3.000
Cuba	6.410.000	1.100.000	500.000
Cyprus	550.000	100.000	1.000
Czechoslovakia	13.650.000	3.509.982	600.000
Dahomey	1.780.000	5.000	–
Denmark	4.554.298	1.521.680	500.000
Dominican Rep.	3.013.525	94.827	17.456
Ecuador	4.000.000	170.000	–
El Salvador	2.400.000	40.000	32.000
Ethiopia	20.000.000	300.000	–
Faeroe Isl.	35.000	5.600	–
Falkland Isl.	2.260	521	–
Fiji Islands	374.284	20.117	–
Finland	4.453.073	1.220.000	80.000
France	42.777.174	10.827.293	1.732.855
Germany Federal Rep.	55.362.400	15.730.292	4.288.008
Germany Dem. Rep.	17.298.165	6.082.579	843.600
Ghana	6.500.000	90.000	–
Gibraltar	25.000	4.765	–
Gilbert and Ellice Islands	40.000	144	–
Goa	645.000	4.300	–
Great Britain	50.383.000	15.168.383	10.817.048
Greece	8.000.000	783.495	–
Greenland	31.000	500	–
Guadeloupe	250.000	6.000	–
Guatemala	3.800.000	36.000	30.000
Guiana, British	523.000	34.336	–
Guiana, French	25.000	1.000	–
Guinea, Rep.	2.525.000	25.000	–
Guinea, Portug.	547.000	1.491	–
Guinea, Spanish	209.000	1.500	–
Haiti	3.344.000	21.000	1.800
Hawaii	620.346	455.000	149.000
Holland	11.300.000	3.100.000	750.000
Honduras, Brit.	90.000	2.201	–
Honduras, Rep.	2.000.000	45.000	3.000
Hong Kong	2.806.000	115.341	5.400*
Hungary	10.000.000	2.200.000	72.000
Iceland	170.000	47.000	–
India	387.350.000	1.876.439	1.000
Indonesia	92.000.000	1.200.000	–
Iran	20.000.000	425.000	38.000
Iraq	7.000.000	100.000	75.000
Ireland	2.898.264	494.444	75.000
Israel	2.100.000	450.000	–
Italy	51.000.000	7.897.632	2.000.316
Ivory Coast	3.091.000	50.000	–
Jamaica	1.650.000	150.000	–
Japan	93.250.000	13.078.308	4.905.360
Jordan	1.600.000	153.281	–
Kenya	6.351.000	100.000	–
Korea Peop. Dem. Rep.	15.000.000	600.000	–
Korea Rep.	22.303.000	351.000	8.000
Kuwait	250.000	75.000	700
Laos	3.000.000	10.000	–
Lebanon	1.600.000	80.000	18.000
Leeward Isl.	57.000	2.000	–
Liberia	2.000.000	50.000	–
Libya	1.200.000	200.000	–
Luxembourg	322.000	96.559	7.000
Macau	250.000	10.000	–
Madagascar	5.500.000	70.000	–
Malaya (Feder.)	6.250.000	224.248	–
Mali	3.650.000	8.000	–
Malta	328.012	49.000	8.500
Marianas Isl.	100.000	60.000	40.000
Martinique	258.000	11.000	–
Mauritius	625.000	37.000	–
Mexico	34.000.000	2.800.000	440.164
Monaco	21.000	5.100	11.000
Morocco	10.000.000	512.000	5.000
Mongolia	1.100.000	20.000	–
Mozambique	6.105.000	41.167	–
Nepal	8.787.000	12.000	–
Netherl. Ant.	194.000	41.000	3.500
New Caledonia	70.000	5.000	–
New Zealand	2.371.760	580.000	2.000
Nicaragua	1.331.000	35.000	4.000
Niger	2.425.000	10.000	–
Nigeria	35.000.000	200.000	2.000
Norway	3.500.000	1.000.000	30.000
Pakistan	83.603.000	250.000	–
Panama	1.009.000	135.000	12.000
Paraguay	1.700.000	105.000	–
Peoples Rep. of China	650.000.000	4.500.000	10.000
Peru	9.923.000	1.100.000	33.200
Philippines	23.800.000	900.000	13.000
Poland	28.000.000	5.135.977	320.000
Portugal	9.000.000	821.290	42.000
Puerto Rico	2.314.000	1.400.000	160.000
Reunion	312.000	12.500	–
Rhodesia & Nyasaland	8.000.000	100.000	10.000
Ruanda-Urundi	4.700.241	50.000	–
Rumania	18.300.000	2.150.000	22.000
Ryukyu Isl.	855.000	25.000	–
St. Pierre & Miquelon	5.000	1.100	–
Samoa	125.000	4.500	–
Sao Tomé	62.000	8.000	–
Sarawak	650.000	30.000	–
Saudi Arabia	6.000.000	21.000	11.000
Senegal	2.575.000	125.000	–
Seychelles	43.000	800	–
Sierra Leone	2.000.000	5.000	–
Singapore	1.560.000	100.000	–
Solomon Isl.	112.000	2.500	–
Somaliland (Protectorate)	650.000	10.000	–
Somaliland, French	67.300	3.000	–
Somaliland (Fed. of)	1.200.000	22.500	–
Spain	29.431.000	2.500.000	240.000
Sudan	10.700.000	10.000	–
Surinam	350.000	40.000	–
Sweden	7.471.345	2.711.048	818.099
Switzerland	5.243.000	1.422.769	110.921
Tahiti	80.000	16.000	–
Taiwan	10.300.000	445.447	
Tanganyika	8.456.000	50.000	–
Tchad	2.580.000	6.000	–
Thailand	25.000.000	250.000	54.000
Trinidad	750.000	60.000	100
Togo	1.085.000	3.000	–
Tunisia	4.000.000	100.000	–
Turkey	25.500.000	1.167.000	1.000
Uganda	6.356.175	85.000	–
United Arab. Rep.			
Egypt	26.000.000	1.500.000	35.000
Syria	4.200.000	550.000	–
Union of S. Africa	14.200.000	986.050	–
United States	177.300.000	161.000.000	52.000.000
Upper Volta	3.760.000	15.000	–
Uruguay	3.000.000	800.000	25.000
U.S.S.R.	205.000.000	8.400.000	4.000.000
Venezuela	7.000.000	1.250.000	733.000
Vietnam, Rep.	12.300.000	120.000	–
Virgin Isl.	24.000	5.500	–
Windward Isl.	320.000	20.000	–
Yugoslavia	18.667.000	1.309.000	25.000
Zanzibar	299.111	5.147	–

[1]) Incl. 833.758 loudspeakers. *) Closed circuit

BURTON BROWNE/New York



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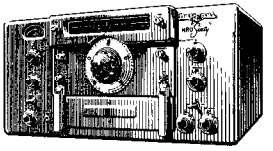
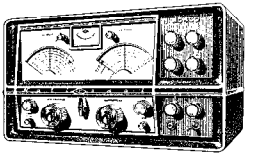


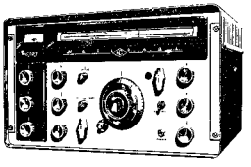
HRO-60

Features widest frequency coverage of any receiver available, 50 kc to 54 mc . . . the world's most famous receiver.



NC-400

National's newest general coverage receiver. Covers 540 kc to 31 mc in 7 bands. 18 tubes (including rectifier) AM-CW-SSB. May be used in fixed channel or diversity operation.



NC-303

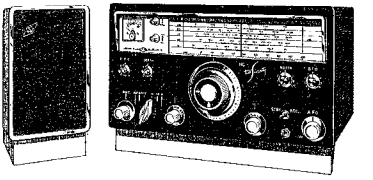
All "ham band" receiver with highest mechanical stability, lowest thermal drift and maximum SSB, AM and CW versatility. 10 separate dial scales cover 160 to $1^1/_4$ meters. Dual conversion. 5-position "IF Shift" for selectable sideband.

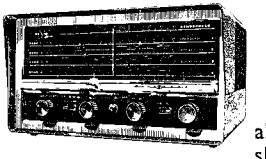
NC-66

AC/DC - Battery Portable. Covers 150 kc to 23 mc in 5 bands . . . only receiver at its price with calibrated coverage of CONSOLAN. Exclusive RDF-66 Direction Finder Accessory provides accurate navigation for small boats.

NC-270
"COSMIC BLUE"

National's newest! Dual conversion "ham band" receiver . . . 6 meter coverage; features the exclusive Ferrite Filter* for instant upper-lower SSB, CW and AM selectivity and it provides an average "Q" of 500 at 230 kc . . . in new duo-tone Cosmic Blue cabinet; plus Flip Foot for maximum operating convenience.
*Patent pending.





NC-60

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. . . FIRST all-new, low-priced shortwave/standard broadcast receiver in over 10 years! Covers 540 kc to 31 mc in 4 bands. 110 volt AC/DC. Built-in speaker.

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WORLD TIME IN ALL COUNTRIES

DIFFERENCE BETWEEN LOCAL TIME AND GREENWICH MEAN TIME

The differences marked + indicate the number of hours ahead of G. M. T. Differences marked ÷ indicate number of hours behind G. M. T.

	Normal clock Time	Summer Time
Aden	+3	+3
Afghanistan	+4½	+4½
Alaska[1]	÷8	÷8
Albania	+1	+1
Algeria	+1	+1
Andorra	+1	+1
Angola	+1	+1
Argentina	÷3	÷3
Australia		
a) Victoria New South Wales, Queensland, Tasmania, (Brisbane, Melbourne, Sydney)	+10	+10
b) N. Territory S. Australia	+9½	+9½
c) W. Australia	+8	+8
Austria	+1	+1
Azores	÷2	÷1 1/4-1/10
Bahamas	÷5	÷5
Bahrain	+4	+4
Barbados(W.I.)	÷4	÷4
Bechuanaland	+2	+2
Congo, Rep. Leopoldville	+1	+1
Elisabethville	+2	+2
Stanleyville	+2	+2
Belgium	+1	+1
Bermuda	÷4	÷4
Bolivia	÷4	÷4
Borneo, British North	+8	+8
Brazil		
a) Eastern and Coastal.	÷3	÷2
b) Manaos[2]	÷4	÷3
Brunei, No. Borneo	+8	+8
Bulgaria	+2	+2
Burma	+6½	+6½
Cambodia	+7	+7
Cameroon, Fr.	+1	+1
Canada		25/4-25/9
a) New Foundland	÷3½	÷2½
b) Atlantic (Labrador, Nova Scotia, Quebec)*	÷4	÷3
c) Eastern (Ontario)	÷5	÷4
d) Central (Manitoba)	÷6	÷5
e) Mountain (Alberta)	÷7	÷6
f) Pacific (Br. Columbia)	÷8	÷7
g) Yukon	÷9	÷8
Canary Islands	GMT	GMT
Canton Islands	÷11	÷11
Cape Verde Isl.	÷2	÷2
Central African Rep.	+1	+1
Ceylon	+5½	+5½
Chatham Isl.	+12¾	+12¾
Chile	÷4	÷4
China		
Peoples Rep.	+8	+8
Taiwan	+8	+9 +1/6-30/9
Christmas Isl.	÷9	÷9
Colombia	÷5	÷5
Comoro Isl.	+3	+3
Cook Isl.	÷10½	÷10½
Costa Rica	÷6	÷6
Cuba (W.I.)	÷5	÷5
Curacao	÷4½	÷4½
Cyprus	+2	+2
Czechoslovakia	+1	+1
Dahomey	+1	+1
Denmark	+1	+1
Dominican R.	÷5	÷5
Ecuador	÷5	÷5
Egypt	+2	+3 1/15-30/9
Ellice Island	+12	+12
El Salvador	÷6	÷6
Eritrea	+3	+3
Ethiopia	+3	+3
Falkland Islands	÷4	÷4
Fiji Islands	+12	+12
Finland	+2	+2
France	+1	+1
French Congo	+1	+1
French West Africa (Senegal)	GMT	GMT
Gabon	+1	+1
Gambia	GMT	GMT
Germany	+1	+1
Gibraltar	+1	+1
Gilbert Isl.	+12	+12
Goa (Port India)	+5½	+5½
Ghana	GMT	GMT
Great Britain	GMT	+1** 1/4-1/10
Greece	+2	+2
Greenland		
Thule area	÷4	÷4
W. Coast exc. Thule	÷3	÷3
Angmagssalik	÷2	÷2
Guadeloupe	÷4	÷4
Guam	+10	+10
Guatemala	÷6	÷6
Guiana (British)	÷3¾	÷3¾
Guiana (Dutch)	÷3.40	÷3.40
Guiana (French)	÷4	÷4
Guinea	GMT	GMT
Guinea (Port.)	÷1	÷1
Guinea (Sp.)	+1	+1
Haiti (W.I.)	÷5	÷5
Hawaiian Isl.	÷10	÷10
Holland	+1	+1
Honduras(Rep.)	÷6	÷6
Honduras(Brit.)	÷6	÷6
Hong Kong	+8	+9 1/4-31/10
Hungary	+1	+1
Iceland	÷1	GMT 3/4-31/10
India	+5½	+5½
Indonesia		
a) North Sumatra	+6½	+6½
b) South -	+7	+7
c) Java, Borneo, Bali	+7½	+7½
d) Celebes	+8	+8
e) Molucca Isl.	+8	+8
Iran (Persia)	+3½	+3½
Iraq	+3	+3
Ireland (Eire)	GMT	+1 15/4-15/10
Israel	+2	+2 1/15-15/9
Italy	+1	+1
Ivory Coast	GMT	GMT
Jamaica (W.I.)	÷5	÷5
Japan	+9	+9
Jordan	+2	+2
Katanga	+2	+2
Kenya	+3	+3 4/15-7/9
Korea, Rep.	+8½	+9½
Korea, P.D.Rep.	+9	+9
Kuwait	+3	+3
Laos	+7	+7
Lebanon	+2	+2
Leeward Isl.	÷4	÷4
Liberia	÷¾	÷¾
Libya	+2	+2
Luxembourg	+1	+1
Macau	+8	+9 1/15-1/10
Madagascar	+3	+3
Madeira	÷1	GMT 1/4-1/10
Malaya	+7½	+7½
Mali	GMT	GMT
Malta	+1	+1
Marshall Isl.	+12	+12
Martinique	÷4	÷4
Mauretania	GMT	GMT
Mauritius	+4	+4
Mexico[2]	÷6	÷6
Midway	÷11	÷11
Monaco	+1	+1
Mongolia(Outer)	+8	+8
Morocco	GMT	GMT
Mozambique	+2	+2
Nepal	+5.40	+5.40
Neth. Antilles	÷4½	÷4½
New Caledonia	+11	+11
New Guinea (Dutch)	+9½	+9½
New Guinea (Australian)	+10	+10
New Hebrides	+11	+11
New Zealand	+12	+12
Nicaragua	÷6	÷6
Niger	+1	+1
Nigeria	+1	+1
Norfolk Isl.	+11½	+11½
Norway	+1	+2
Pakistan		15/3-20/9
a) West	+5	+5
b) East	+6	+6
Panama	÷5	÷5
Paraguay	÷4	÷4
Peru	÷5	÷5
Philippine Isl.	+8	+8
Poland	+1	+2
Portugal	GMT	+1 1/4-1/10
Puert.Rico(W.I.)	÷4	÷4
Reunion	+4	+4
Rhodesia (No.+So.)	+2	+2
Ruanda Urundi	+2	+2
Rumania	+2	+2
Ryukyu Isl.	+9	+9
Samoa Isl.	÷11	÷11
S. Pierre	÷3	÷3
S. Tomé	GMT	+1
Sarawak	+8	+8
Saudi Arabia	+3	+3
Senegal	GMT	GMT
Seychelles Isl.	+4	+4
Sierra Leone	GMT	GMT
Singapore	+7½	+7½
Solomon Isl.	+11	+11
Somaliland	+3	+3
Spain	+1	+1
Sudan	+2	+2
Surinam	÷3.40	÷3.40
Swan Islands	÷6	÷6
Sweden	+1	+1
Switzerland	+1	+1
Syria	+2	+2
Tanganyika	+3	+3
Tahiti	÷10	÷10
Tasmania	+10	+10
Tchad	+1	+1
Thailand	+7	+7
Tibet	+6	+6
Togo	GMT	GMT
Tonga Islands	+12	+12
Trinidad(B.W.I.)	÷4	÷4
Tunesia	+1	+1
Turkey	+2	+2
Uganda	+3	+3
Union of So. Af.	+2	+2
Upper Volta	GMT	GMT
Uruguay	÷3	÷3
U.S.S.R. Moscow, Leningrad	+3	+3
Baku	+4	+4
Sverdlovsk	+5	+5
Tashkent	+6	+6
Novosibirsk	+7	+7
Irkutsk	+8	+8
Yakutsk	+9	+9
Khabarovsk	+10	+10
Petropavlovsk	+11	+11
Ea. Sibiria	+13	+13
U.S.A.		
a) Eastern Zone	÷5	÷4 1/5-1/10
b) Central Zone	÷6	÷5 1/5-1/10
c) Mountain Zone	÷7	÷6
d) Pacific Zone	÷8	÷7 1/5-1/10
Vatican	+1	+1
Venezuela	÷4½	÷4½
Vietnam	+8	+8
Virgin Isl.	÷4	÷4
Windward Isl.	÷4	÷4
Yemen	+3	+3
Yugoslavia	+1	+1
Zanzibar	+3	+3

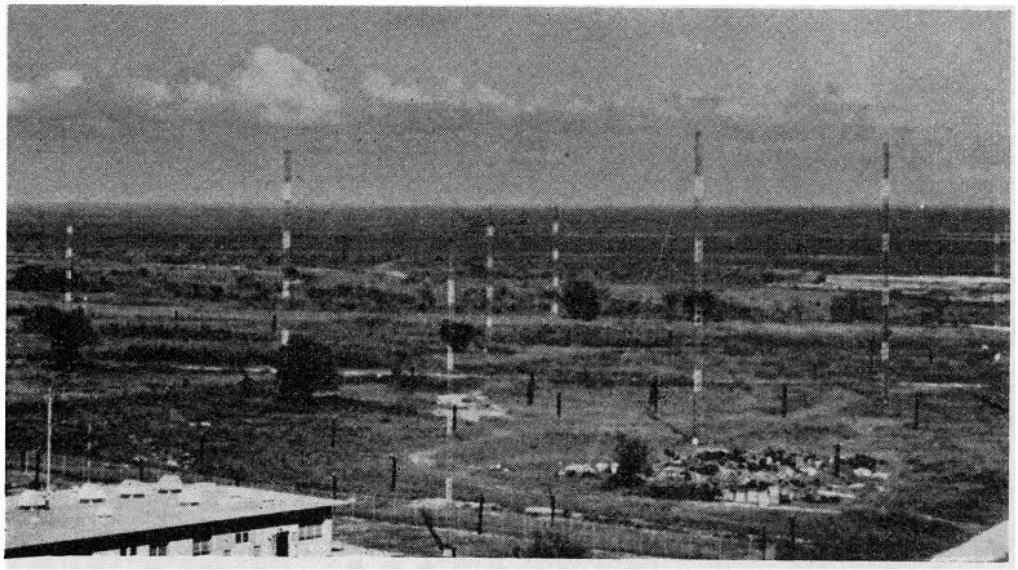
* exc. the watch shore and Gaspé regions: 5 h. behind GMT.

** Summer Time in Britain starts at 02 hours GMT after the 3rd Sat. in Apr. (or 2nd Sat. if 3rd is Easter weekend) and runs until 02 h. GMT after the first Sat. in Oct.

1) a) Ketchikan to Skagway ÷8
b) Skagway to 141°W. long ÷9
c) 141°W. long to 162°W. long ÷10
d) 162°W. long to Westernmost point (incl. Aleutians) ÷11

2) Generally ÷6
Lower Cal., Pa. coast ÷7
No. part ÷8

DESIGNED AND INSTALLED BY PAGE...



BROADCAST SYSTEMS REACHING THE PEOPLE OF OVER 100 NATIONS

Page Communications Engineers, Inc., known the world over for quality communications systems, has designed and installed many of the most powerful medium frequency broadcast stations now in operation. These Page-built stations are providing the peoples of over 100 nations dependable, around-the-clock broadcasting service . . . *in many instances for the first time.*

Two of the world's most powerful transmitters (1 megawatt), were designed, built and installed by Page on Luzon in the Philippines, and on Okinawa for the U.S. Information Agency's Voice of America. The world's largest VOA radio relay shortwave transmitter at Tangier, North Africa, and a fourth VOA installation at Monrovia, Liberia, are other Page projects. They also conducted the extensive broadcast study upon which the VOA's European coverage is predicated, and they planned some of the initial broadcast facilities for TV stations in Cuba, Brazil, and in other Latin and South American countries.

In Korea, Page studies led to plans for modernizing and extending the Korean Broadcasting Network. They recently built the Kingdom of Libya's first broadcasting network.

Page's experience in engineering complete broadcast facilities anywhere in the world is unequalled . . . anywhere in the world. For additional information, write to:

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COMMUNICATIONS ENGINEERS, INC.

Subsidiary of NORTHROP Corporation

2001 WISCONSIN AVENUE, N.W., WASHINGTON 7, D.C., U.S.A.

FREQUENCY BANDS ALLOCATED TO BROADCASTING, TELEVISION AND AMATEURS

The table is based upon the Geneva Regulations 1959. Some bands are shared with other services. In certain countries exceptions from the table below apply. **Region 1:** Europe, U.S.S.R. in Asia, Africa. **Region 2:** N. and S. America, Northeast Pacific. **Region 3:** Asia exc. U.S.S.R., Australia, N. Zealand, part of Pacific.

Abbreviations:

BC: Broadcasting (AM sound) – BC (trop): Broadcasting (AM sound tropical zones) – BC (FM): Broadcasting (FM sound) – BC (TV): Broadcasting (Television) – AMAT: Amateurs.

	Region 1 kc/s	Region 2 kc/s	Region 3 kc/s
BC	150–285		
BC	525–1605	525–1605	525–1605
AMAT		1800–2000	1800–2000
BC(trop)	2300–2498	2300–2495	2300–2495
BC(trop)	3200–3400	3200–3400	3200–3400
AMAT	3500–3800	3500–4000	3500–3800
BC	3950–4000		3900–4000
BC(trop)	4750–4995	4750–4995	4750–4995
BC(trop)	5005–5060	5005–5060	5005–5060
BC	5950–6200	5950–6200	5950–6200
AMAT	7000–7100	7000–7300	7000–7100
BC	7100–7300		7100–7300
BC	9500–9775	9500–9775	9500–9775
BC	11700–11975	11700–11975	11700–11975
AMAT	14000–14350	14000–14350	14000–14350
BC	15100–15450	15100–15450	15100–15450
BC	17700–17900	17700–17900	17700–17900
AMAT	21000–21450	21000–21450	21000–21450
BC	21450–21750	21450–21750	21450–21750
BC	25600–26100	25600–26100	25600–26100
AMAT	28000–29700	28000–29700	28000–29700

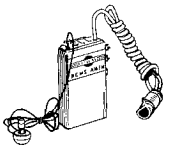
	Region 1 mc/s West	Region 1 mc/s East	Region 2 mc/s	Region 3 mc/s
BC(TV)	41–68	41–66		44–50
AMAT			50–54	50–54
BC(TV)			54–72	54–68
BC(TV)			76–88	
BC(FM)	87.5–100	66–73	88–108	87–108
BC(TV)		76–100		
AMAT	144–146		144–148	144–148
BC(TV)	174–216		174–216	170–216
AMAT			220–225	
AMAT	430–440		420–450	420–450
BC(TV)	470–960		470–890	470–585
BC(TV)				610–960
AMAT	1215–1300		1215–1300	1215–1300
AMAT	2300–2450		2300–2450	2300–2450
AMAT			3300–3500	3300–3500
AMAT	5650–5850		5650–5925	5650–5850
AMAT	10000–10500		10000–10500	10000–10500
BC	11700–12700		11700–12700	11700–12700
AMAT	21000–22000		21000–22000	21000–22000

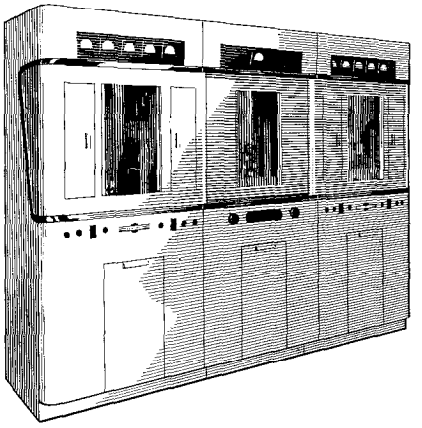
TABLE OF ALLOCATION OF CALL SIGNS

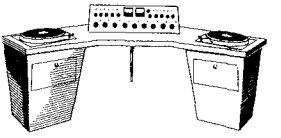
The first character of the first two characters of a call sign indicates the nationality of the station using it.

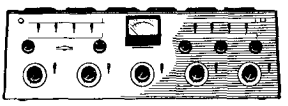
AAA–ALZ U.S.A.
AMA–AOZ[1]) Spain
APA–ASZ Pakistan
ATA–AWZ India
AXA–AXZ Australia
AYA–AZZ Argentina
BAA–BZZ China
CAA–CEZ Chile
CFA–CKZ Canada
CLA–CMZ Cuba
CNA–CNZ Morocco
COA–COZ Cuba
CPA–CPZ Bolivia
CQA–CRZ Portuguese
CSA–CUZ Portugal
CVA–CXZ Uruguay
CYA–CZZ Canada
DAA–DMZ Germany
DNA–DQZ Congo (Rep.)
DRA–DTZ Bielorussian See
DUA–DZZ Philippines
EAA–EHZ Spain
EIA–EJZ Ireland
EKA–EKZ U.S.S.R.
ELA–ELZ Liberia
EMA–EOZ U.S.S.R.
EPA–EQZ Iran
ERA–ERZ U.S.S.R.
ESA–ESZ Estonia
ETA–ETZ Ethiopia
EUA–EZZ U.S.S.R.
FAA–FZZ France
GAA–GZZ United Kingdom
HAA–HAZ Hungary
HBA–HBZ Switzerland
HCA–HDZ Ecuador
HEA–HEZ Switzerland
HFA–HFZ Poland
HGA–HGZ Hungary
HHA–HHZ Haiti
HIA–HIZ Dominican Rep.
HJA–HKZ Colombia
HLA–HMZ Korea
HNA–HNZ Iraq
HOA–HPZ Panama
HQA–HRZ Honduras
HSA–HSZ Thailand
HTA–HTZ Nicaragua
HUA–HUZ El Salvador
HVA–HVZ Vatican City
HWA–HYZ France
HZA–HZZ Saudi Arabia
IAA–IZZ Italy
JAA–JSZ Japan
JTA–JVZ Mongol. P. R.
JWA–JXZ Norway
JYA–JYZ[1]) Jordan
JZA–JZZ[1]) N. Guinea
KAA–KZZ U.S.A.
LAA–LNZ Norway
LOA–LWZ Argentina
LXA–LXZ Luxembourg
LYA–LYZ Lithuania
LZA–LZZ Bulgaria
MAA–MZZ United Kingdom
NAA–NZZ U.S.A.
OAA–OCZ Peru
ODA–ODZ Lebanon
OEA–OEZ Austria
OFA–OJZ Finland
OKA–OMZ Czechoslovakia
ONA–OTZ Belgium
OUA–OZZ Denmark
PAA–PIZ Netherlands
PJA–PJZ Neth Antilles
PKA–POZ Indonesia
PPA–PYZ Brazil
PZA–PZZ Surinam
QAA–QZZ (abbreviat.)
RAA–RZZ U.S.S.R.
SAA–SMZ Sweden
SNA–SRZ Poland
SSA–SSM Egypt
SSN–STZ[1]) Sudan
SUA–SUZ Egypt
SVA–SZZ Greece
TAA–TCZ Turkey
TDA–TDZ Guatemala
TEA–TEZ Costa Rica
TFA–TFZ Iceland
TGA–TGZ Guatemala
THA–THZ France
TIA–TIZ Costa Rica
TJA–TRZ France
TSA–TSM Tunisia
TSN–TZZ France
UAA–UQZ U.S.S.R.
URA–UTZ Ukrainian U.S.S.R.
UUA–UZZ U.S.S.R.
VAA–VGZ Canada
VHA–VNZ Australia
VOA–VOZ Canada
VPA–VSZ British Colonies
VTA–VWZ India
VXA–VYZ Canada
VZA–VZZ Australia
WAA–WZZ U.S.A.
XAA–XIZ Mexico
XJA–XOZ Canada
XPA–XPZ Denmark
XQA–XRZ Chile
XSA–XSZ China
XTA–XTZ France
XUA–XUZ[1]) Cambodia
XVA–XVZ[1]) Vietnam
XWA–XWZ[1]) Laos
XXA–XXZ Port. Col.
XYA–XZZ Burma
YAA–YAZ Afghanistan
YBA–YHZ Indonesia
YIA–YIZ Iraq
YJA–YJZ New Hebrides
YKA–YKZ Syrian Rep.
YLA–YLZ Latvia
YMA–YMZ Turkey
YNA–YNZ Nicaragua
YOA–YRZ Roumania
YSA–YSZ El Salvador
YTA–YUZ Yugoslavia
YVA–YYZ Venezuela
YZA–YZZ Yugoslavia
ZAA–ZAZ Albania
ZBA–ZJZ British Colonies
ZKA–ZMZ New Zealand
ZNA–ZOZ British Colonies
ZPA–ZPZ Paraguay
ZQA–ZQZ British Colonies
ZRA–ZUZ Union of S. Africa
ZVA–ZZZ Brazil
2AA–2ZZ United Kingdom
3AA–3AZ Monaco
3BA–3FZ Canada
3GA–3GZ Chile
3HA–3UZ China
3VA–3VZ Tunisia
3WA–3WZ[1]) Vietnam
3YA–3YZ Norway
3ZA–3ZZ Poland
4AA–4CZ Mexico
4DA–4IZ Philippines
4JA–4LZ U.S.S.R.
4MA–4MZ Venezuela
4NA–4OZ Yugoslavia
4PA–4SZ Ceylon
4TA–4TZ Peru
4UA–4UZ United Nations
4VA–4VZ Haiti
4WA–4WZ Yemen
4XA–4XZ[1]) Israel
4YA–4YZ[1]) Intern. Civil Aviation Org.
5AA–5AZ Libya
5CA–5CZ[1]) Morocco
9KA–9KZ[1]) Kuwait
5LA–5LZ[1]) Liberia
5MA–5MZ[1]) Liberia
5PA–5QZ[1]) Denmark
9AA–9AZ[1]) San-Marino
9NA–9NZ[1]) Nepal
9SA–9SZ[1]) Saar Terr.

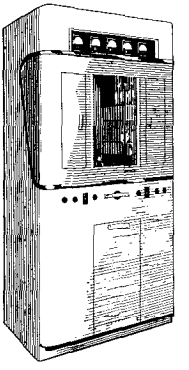
[1]) **Provisionally**











HIGH FIDELITY BROADCASTING FROM COLLINS

your one complete source for quality broadcasting equipment

Collins' equipment is designed for economical, high fidelity radio broadcasting. Collins high fidelity transmitters deliver greater audio range with minimum distortion. Typical audio frequency response is within ±1.5 db from 30 to 15,000 cps. Distortion is less than 3% from 30 to 15,000 cps for 95% modulation. And Collins has it all — a complete radio station — from microphone to antenna — your complete broadcast equipment source.

AM TRANSMITTERS

21E/M 5/10 kw Transmitters—feature for feature the most economical transmitter available, extremely stable vacuum type crystals eliminate need for crystal ovens. Conservatively rated components, easy access to all components, forced air cooling, long tube life, compact size. Circuitry is simplified, with only ten tube types in the 21E/M.

20V 1000/500 watt, 550A 500/250 watt, 300J 250/100 watt Transmitters — each housed in a single identical cabinet. Same fine features as 21E/M.

POWER INCREASE PACKAGES

Increase 300J, 550A, 21E Power Overnight — That's as long as it takes to install the Collins Power Increase Package. You don't lose a minute of commercial time — start with sign-off and by sign-on the next day you operate the 300 J at 500 or 1,000 watts, 550A at 1,000 watts, the 21E at 10,000 watts. This money-saving service is typical of the advanced design and quality engineering in all Collins Broadcast Equipment.

SPEECH INPUT CONSOLES

212F and 212E—supply complete control over simultaneous broadcasting and auditioning. 212F single channel from any of 12 possible inputs. 212E dual channel from 22 possible inputs. Both monitor program and remote lines, control speakers and warning lights.

REMOTE AMPLIFIERS

212Z—lightweight, ruggedly constructed remote four-channel transistorized unit weighs only 22 lbs. with batteries, comes in typewriter size carrying case. Built-in tone oscillator for line level set up and automatic power changeover.

Micromote Transistorized Remote Amplifier — *Weighs only 10 oz. complete. Fits into* coat pocket or on belt. Contains six transistors and four 200-hour mercury batteries. Comes complete with ear-plug head phone and with or without Turner 58A lavalier microphone.

TURNTABLE EQUIPMENT

TT-400/200—3 moving parts in drive mechanism; 3 speed selector; unique 7″ indentation for 45 rpm discs. Available in 16″ 4-pole (TT-400) or synchronous (TT-400S) and 12″ 4-pole (TT-200) or synchronous (TT-200S).

Custom Control Desk—Individually designed to your requirements at low cost. Ask for a proposal.

Whatever your broadcast needs, specify Collins, your complete source for quality broadcast equipment. For complete information call or write us.

COLLINS

COLLINS RADIO COMPANY, International Division- P. O. Box 1891, Dallas 21, Texas, U.S.A.
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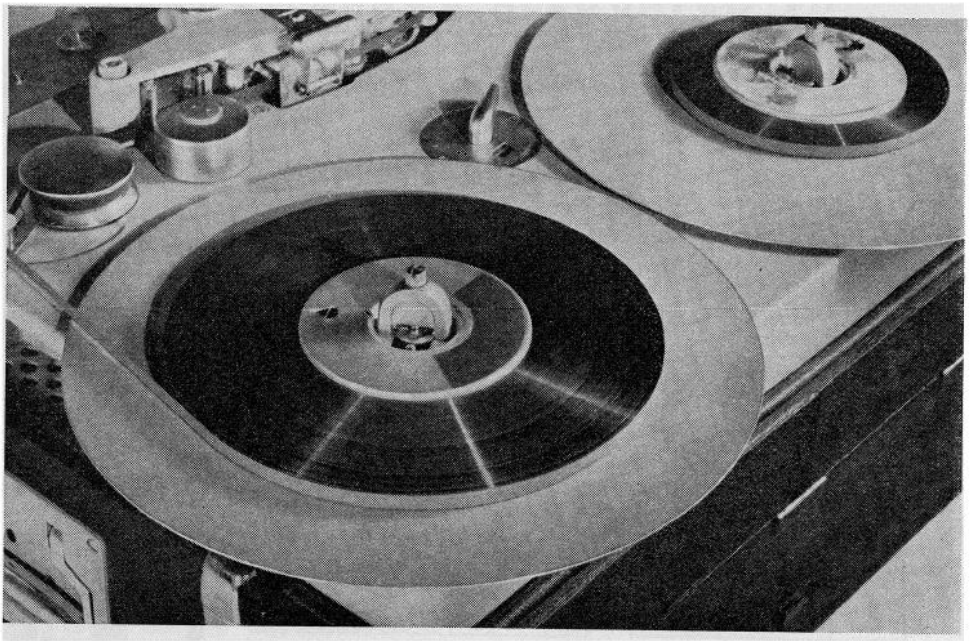
COLLINS RADIO COMPANY (France) S.A.R.L., 3 rue Lord Byron, Paris VIII, France
COLLINS RADIO COMPANY, GmbH., Frankfurt/Main Flughafen, Frankfurt/Main, Germany
COLLINS RADIO INTERNATIONAL, C.A., Case Postale 35, Cointrin Airport, Geneva, Switzerland



The new magnetic tape **GEVASONOR**

Ease of editing is one of the several advantages of using flangeless spools, but their use involves a risk that the tape may ride up without warning and cause a jam. This, of course, will occur only with tapes that do not run absolutely flat. It is therefore advisable to use tapes that remain perfectly flat when running off and on the spools.

GEVASONOR type F has a special nonslip back coating that guarantees this. Even at the highest rewinding speeds, there is no danger of a jam.

GEVASONOR type F is supplied in 1000-metre reels (3290 feet) on 100-mm A.E.G. cores. A 293-mm backing plate can be supplied separately.

GEVASONOR type F is packed in cartons convenient for tape librairies.

The particles of iron oxide are orientated, for maximum sensitivity and minimum noise. Even at low tape-speeds, the treble is well reproduced.

For portable machines GEVASONOR type M tape is recommended. Except for a smooth back coating, it has the same characteristics as type F.

Type M is supplied on plastic spools, specially designed to be readily mounted on the spindle with one hand. (Spool diameters available are 13, 15, 18 and 25 cm.)

Tapes types M and F have a thickness of about 0.05 mm. The base is of cellulose triacetate, giving very little stretch so that negligible loss in quality is caused by excessive tape tension.

GEVAERT

GEVAERT PHOTO-PRODUCTEN N.V. MORTSEL (ANTWERP), BELGIUM

789

EUROPE

★ ALBANIA ★

L.T.: GMT+1 h. – P.L.: Albanian. – Po.: 1.462.000. – Rcvrs.: 25.000. – E.C.: 220/380 V., A.C., 50 c/s.

R. TIRANA (Go.)

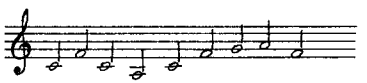
ADDR.: Direction Centrale de la Radiodiffusion d'Albanie, Rue Conference de Peza 3, Tirana.

HOME SCE.: 05.00–07.00, 11.00–15.00, 16.00–22.00.
Tirana 1088 kc/s 275.7 m 50 kW – Korça 1349 kc/s 222 m 0.2 kW.

FOREIGN SCE.:
1088 kc/s 275.7 m 50 kW – 7157 kc/s 41.92 m 3 kW
7850 – 38.20 – 3 –

Albanian	kc/s	French	kc/s
18.00–18.30	7850	22.00–22.30	7157
21.30–22.00	7157, 7850	Greek	
Arabic		18.30–19.00	7157, 7850
04.00–05.00	1088	21.00–21.30	7157, 7850
19.00–20.00	7157, 7850	Italian	
22.00–23.00	1088, 7850	20.30–21.00	7157, 7850
English		23.00–23.30	1088
22.30–23.00	7157	Serbo-Croat	
		20.00–20.30	7157, 7850

ANN.: Albanian: "Ketu flet Tirana". Arabic: "Huna Tirana, Sautu Albania". E.: "This is R. Tirana". F.: "Ici Tirana". Greek: "Etho Tirana". I.: "Parla Tirana". Serbo-Croat: "Govóri Tirana". – INT.-SIG.: 9 notes played on bassoon.



V. by letter.

★ ANDORRA ★

L.T.: GMT+1 h. – Pr.L.: French, Spanish. – Po.: 6.000. – Rcvrs.: 2.000.

RADIO ANDORRA (Pr. Comm.)

ADDR.: Roc des Anelletas, Andorre La Vieille. – L.P.: Dir. Gen.: G. Dahlquist. Dir. Tec.: L. Killmayer. Dir. Prgr.: G. Marquet. French Dept.: J. Bonis. Spanish Dept.: T. Gomez. Listeners Sce.: M. F. Torres.

HOME SERVICE: W. 05.45–08.00, 11.00–23.00. Sun. 06.45–23.00. 998 kc/s 300.6 m 100 kW – 5972 kc/s 50.22 m 25 kW.
French: W. 05.45–08.00, 11.00–13.15, 15.00–21.00. Sun. 06.45–13.15, 15.00–21.00. Spanish: D. 13.15–15.00, 21.00–23.00.
ANN.: F.: "Ici Radio Andorre". Sp.: "Aqui Radio Andorra – Roc de les Aneletes, Andorra la Vieja, Principado de Andorra". –
INT.-SIG.: Gong low. Open and close with "Hymne National Andorran" and "Marche des Conseillers Andorrans". – V. by QSL-card or letter. R.p. – PUB.: Weekly prgr.sched. free on request.

ANDORRADIO S.A. (Comm.)

ADDR.: P. O. Box 7, Andorra la Vella. Cable: Andorradio. Te.: 7. – L.P.: Pres.: S. Puiggros. Dir. Tec.: Y. Ramond. Dir. Prgr's: C. Delepine. Comm. Dir.: M. Dogor (1 bis, rue Maspéro, Paris 16).
HOME SCE. in French, Spanish, Catalan: 06.00–23.00.
818 kc/s 366.8 100 kW – 6305 kc/s 47.58 m 1 kW.
Rel.: D. 16.45. – INT.-SIG.: Xylophone. – V. by post-card.

★ AUSTRIA ★

L.T.: GMT+1 h. – Pr.L.: German. – Po.: 6.900.000. – Rcvrs.: 2.040.809. – E.C.: 110/220 V., A.C., 50 c/s, D.C.

ÖSTERREICHISCHER RUNDFUNK (Gesellschaft m.b.H.)

FI.: by license payments and adv. – AD.: W.: Prgr. I: 70 min. per day; Prgr. II: 15 min. per day; Prgr. III: 8 h. 53 min. per day. Local: 1 h. 27 min. per day.
ADDR.: Österreichischer Rundfunk, Wien IV, Argentinierstr. 30. Cable: Rundfunk Wien. Te.: 656661. – L.P.: Dir. Gen., Adm.: Dr. K. Cejka. Vice Dir. Gen., Dir. Tec.: Dipl. Ing. W. Füchsl. Dir. Prgr.: Prof. Dr. A. Ubelhör. Dir. TV: G. Freund.
STUDIOS: R. Graz: Zusertalgasse 14a, Graz III. – Cable: Radio Graz. P. Goritschnig. – R. Klagenfurt: Sponheimerstr. 13, Klagenfurt. Cable: Radio Klagenfurt, P. Goritschnig. – R. Linz: Obere Donaulände 1, Linz. Cable: Radio Linz. A. Schwetz. – R. Salzburg: Franziskanergasse 5, Salzburg. Cable: Radio Salzburg. Dr. P. Becker. – R. Tirol: Landhaus Neubau, Innsbruck. Cable: Radio Tirol. Dr. J. Scheidle. – R. Vorarlberg: Neues Rathaus, Dornbirn. Cable: Radio Vorarlberg. E. Bohac. – R. Wien: Argentinierstr. 30a, Wien IV. – Cable: Radio Wien. Dr. E. Glaser, H. Hasslinger.

HOME SERVICE

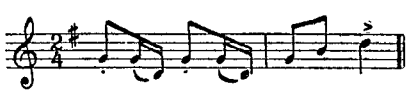
FIRST PRGR.: W.: 04.30–24.00, Sun. 05.00–24.00. Relay 2'Prgr. daily exc. Sat. from 22.00 (Sun. 21.30).

Medium Waves	kc/s	m	kW		kc/s	m	kW
Aldrans I	629	476.9	25	Salzburg I	773	388	1
Lauterach I	629	476.9	25	Linz	890	337.1	15
Lienz I	629	476.9	1	Graz	1394	215.2	25
Klagenfurt I	728	412.1	25	Wien I	1475	203.4	150

Low Power M.W. (0.05 kW exc. where indicated):
566 kc/s: Bad Ischl, Braunau, Feistritz (0.1), Greifenburg*), Maria Pfarr, Mühlbach, Radstadt, Zell/See, Feldkirchen, Eisenkappel, Neukirchen. – **674 kc/s**: Aigen, Bischofshofen, Bleiburg*), Gloggnitz, Neumarkt, Matrei, Radenthein*) (0.1), Ried (0.1). – **692 kc/s**: Admont, Bad Aussee, Gmünd*), Kötschach (0.1), Leoben (0.1), Murau, Mürzzuschlag (0.1), Obervellach, Villach (0.1), Zwettl. – **773 kc/s**: Bad St. Leonhard, Hergamor*) (0.1), Lend, Mariazell, Oberdrauburg*), St. Michael/Lungau, Spittal/Drau*) (0.1). – **1052 kc/s**: Krems, Neunkirchen. – **1124 kc/s**: Bruck/Mur (0.1), Eisenerz (0.1), Hofgastein, Imst, Judenburg (0.1), Kufstein*) (0.015), Mayrhofen, Tamsweg. – **1142 kc/s**: Rottenmann. – **1313 kc/s**: Kindberg, Friesach, Knittelfeld (0.1), Liezen, Völkermarkt, Wolfsberg, Haslach. – **1457 kc/s**: Amstetten, Schruns, Wr. Neustadt. – **1484 kc/s**: St. Pölten (0.2). – **1493 kc/s**: Kitzbühel*), Landeck, Mittersill, Reutte, Saalfelden, Schwarzach, Windischgarsten, Wörgl, Bludenz*) (0.03).
*) operated by the postal adm.

FM	ch.	mc/s	kW		ch.	mc/s	kW
Stubnerkogel I	12	90.63	0.1	Lichtenberg I	27	95.1	50
Patscherkofel I	17	92.1	50	Schöckl I	28	95.4	50
Schmittenhöhe I	18	92.4	0.01	Kahlenberg I	29	95.8	50
Pyramidenkogel I	20	93.0	10	Jauerling I	35	97.5	50
Pfänder I	21	93.3	50	Sonnwend-			
Gaisberg I	26	94.8	50	stein I	37	98.1	2.5

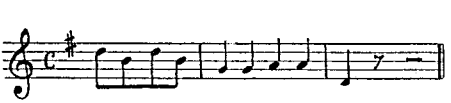
N.: W. 04.45, 05.45, 06.45, 11.30, 16.00, 19.00, 21.00, 22.00 (Mo.-Fri.), 23.00 (exc. Sat.), 24.00 (Sat.), Sun. 10.30.
Slovenian (Klagenfurt only): Mo.-Fri. 13.00.
ANN.: "Hier ist der Österreichische Rundfunk, Erstes Programm, von Radio... (name of studio) hören Sie...". – INT.-SIG.: Extract from ballet-music from "Rosamunde" by Franz Schubert.



SECOND PRGR.: W. 04.30–24.00. Sun. 05.00–24.00.

Medium Waves	kc/s	m	kW		kc/s	m	kW
Aldrans II	520	576.9	10	Wien II	584	513.7	150
Lienz II	520	576.9	10	Dobl	1025	292.7	100
Klagenfurt II	584	513.7	25	Kronstorf	1025	292.7	100
Salzburg II	584	513.7	10	Lauterach II	1025	292.7	10

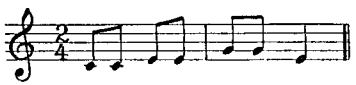
FM: Gaisberg II ch. 12 90.7 mc 8 kW – Jauerling II ch. 24 94.3 mc 15 kW – Stubnerkogel II ch. 34 97.23 mc 0.1 kW.
N., Wrp.: W. 05.00, 06.00, 07.00, 12.00, 16.00, 18.00, 21.00, 22.00 (Mo.-Fri.), 23.00, Sun.: 05.00, 06.00, 09.00, 12.00, 16.00, 18.00, 21.00, 23.00.
Mbg.: Mo., Wed., Fri. 06.10. – Two-way exch. prgr. with Paris and Saarbrücken ("An der schönen blauen Donau"): Sun. 21.30. – Two way exch. prgr. with RAI ("Hallo Rom, Hallo Wien"): Wed. 22.15 once a month.
ANN.: "Hier ist der Österreichische Rundfunk, Zweites Programm, von Radio... (name of studio) hören Sie...". – INT.-SIG.: Extract from Opera "Die Zauberflöte" by W. A. Mozart.



THIRD PRGR.: W. 16.55 (Sun. 17.00)–22.10. – Relay 2nd Prgr.: W. 04.30–05.00, 08.00 (Sat. 09.00)–10.00 & 11.03–11.55. – Light music, advertisements: W. 05.00–08.00 (Sat. 09.00), 10.00–11.03, 12.00–16.00 (exc. Sun.).

FM	ch.	mc/s	kW		ch.	mc/s	kW
Stubnerkogel III	3	87.9	0.1	Schöckl II	14	91.2	50
Sonnwendstein II	4	88.2	2.5	Pyramidenkogel II	36	97.8	10
Patscherkofel II	5	88.5	50	Gaisberg III	40	99.0	50
Jauerling II	6	88.8	50	Lichtenberg II	43	99.9	50
Schmittenhöhe II	6	88.8	0.01	Kahlenberg II	43	99.9	50
Pfänder	9	89.7	3				

N., Wrp.: Sun. 05.00, 06.00, 09.00, 12.00, 16.00. **D.** 20.00, 22.00. – Two-way exch. prgr. with France ("Seine-Donau") and Gt. Britain ("Thames-Donau"): Mo. 19.30 (New music), Fri. 19.00 ("Famous conductors").
ANN.: "Hier ist der Österreichische Rundfunk, Drittes Programm, von Radio... (name of studio) hören Sie...". – **INT.-SIG.:** Extract from G-major Symphony with the kettle drum beats by Joseph Haydn.



PUB.: "Radio Österreich", weekly prgr.sched. Four times a year: "Aus dem Programm" – free on request.

SHORT WAVES:

Call	Name	Prgr.	kc/s	m	kW	Time
OEI20	Aldrans	I	6000	50.00	0.3	04.30–24.00
OEI21	Moosbrunn	*	6155	48.74	50	05.00–09.00
	Moosbrunn	*			0.3	09.00–13.00
	Kronstorf	*			4	13.00–19.00
	Moosbrunn	*			50	19.00–21.00
OEI31	Moosbrunn	*	7200	41.67	50	09.00–11.00
	Kronstorf	*			4	11.00–13.00
OEI33	Moosbrunn	*	7245	41.41	50	04.00–05.00
	Kronstorf	*			4	05.00–09.00
	Moosbrunn	*			0.3	09.00–13.00
	Moosbrunn	*			50	13.00–19.00
OEI41	Kronstorf	*	9540	31.45	4	24.00–02.00
	Moosbrunn	*			0.3	02.00–04.00
OEI42	Moosbrunn	*	9610	31.22	0.3	06.00–09.00
OEI47	Kronstorf	*	9770	30.71	4	09.00–11.00
	Moosbrunn	*			50	11.00–13.00
OEI52	Moosbrunn	*	11785	25.46	0.3	16.00–19.00
	Kronstorf	*			4	19.00–24.00
OEI54	Kronstorf	*	11935	25.14	4	02.00–04.00
	Moosbrunn	*			0.3	04.00–05.00
OEI71	Moosbrunn	*	17755	16.90	0.3	13.00–18.00
OEI72	Moosbrunn	*	17765	16.89	0.3	14.00–16.00
OEI80	Moosbrunn	*	21540	13.93	0.3	10.00–12.00
OEI90	Fleckend.**	*	25615	11.71	20	07.00–09.00
OEI91	Moosbrunn	*	25945	11.56	0.3	11.00–12.00

*) Special prgr. – **) Fleckendorf operated by postal administration. – **V.** by QSL-card or letter. – **F.PL.: Projected FM stations:** Hugl 1, ch. 39 20 kW – Hugl 2, ch. 2 20 kW – Hugl 3, ch. 9 20 kW – Kaibling 1 ch. 17 4 kW – Kaibling 2, ch. 31 4 kW–Kaibling 3, ch. 5 4 kW and several MW- and FM-low power st's.

★ AZORES (Portuguese) ★

L.T.: GMT÷2 h. (Su.÷1 h.). – **Pr.L.:** Portuguese. – **Po.:** 317.500. – **E.C.:** 110/220 V., A.C., 50 c/s.

EMISSOR REGIONAL DOS ACORES (Go.)
ADDR.: Av. Gaspar Fructuoso, Ponta Delgada, S. Miguel.
HOME SCE.: CSA97 4865 kc/s 61.66 m 1 kW.
14.00–15.00, 20.00–24.00. – **N.:** 14.30, 22.30.
ANN.: "Aqui Portugal, Ponta Delgada, Emissor Reg. dos Acores da Emissora Nacional". – **INT.-SIG.:** Chimes. – **V.** by letter or QSL-card.

RADIO CLUBE DE ANGRA (Comm.)
ADDR.: Rua Conselheiro Anastacio de Bettencourt, Angra do Heroismo, Ilha Terceira. – **L.P.:** Pres.: G. L. de Sousa Martins. Dir. Tec.: J. E. L. Fernandes.
HOME SCE.: 1394 kc/s 215.2 m 1 kW. W. 09.00–11.00, 19.00–24.00. Sun. 09.00–15.00, 19.00–24.00.

EMISSORA DO CLUBE ASAS DO ATLANTICO (Comm.)
Fl.: by advertisements. – **ADDR.:** Aeroporto de Santa Maria. Te.: 285. – **L.P.:** Dir. Tec.: A. Franzao.
HOME SCE.: D. 11.00–15.00, 18.00–24.00. CSB81 1571 kc/s 191 m 1 kW – **N.:** D. 21.00. – **Wrp.:** D. 13.00, 15.00, 18.00, 24.00.
ANN.: "Aqui Santa Maria, Fala a Estacao Emissora do Clube Asas do Atlantico". – **INT.-SIG.:** Opens with music played on a Portuguese string instrument (viola) and a guitar. **V.** by post-card. – **F.PL.:** 10 kW and change of frequency.

ARMED FORCES RADIO TELEVISION SCE.: see USA.

★ BELGIUM ★

L.T.: GMT+1 h. – **Pr.L.:** French, Flemish, German. – **Po.:** 9.000.000. – **Rcvrs.:** 2.560.000. – **E.C.:** 110/220 V., A.C. (D.C. 110) 50 c/s.
RADIODIFFUSION-TELEVISION BELGE (R.T.B.) – **BELGISCHE RADIO EN TELEVISIE** – (Belgian Broadcasting and Television) (Go.)
F.I.: By state grant – in – aids. **AD.:** Not allowed.
ADDR.: Place Eugène Flagey 18, Bruxelles 5. **Cable:** INR Bruxelles. **Te.:** 48.81.00. – **L.P.: Emissions françaises:** Dir. Gen.: R. Wangermée. Prgr. Dir.: M. Hankard. Prgr. Dir. (T.V.): L. P. Kammans. – **Nederlandse uitzendingen:** Dir. Gen.: J. Boon. Prgr. Dir.: R. Brulez. Prgr. Dir. (T.V.): P. Vandenbussche. – **Services Communs. Gemeenschappelijke diensten (common sce.s):** Tec.: Dir. Gen.: F. Mortiaux. Chief Eng.: G. Gourski. **Adm. and Finance:** Dir. Gen.: F. Hoosemans. **Overseas Sce. and intern. rel.:** Exec. Dir.: F. Zoete, Dir.: L. Wallenborn. **German prgr.:** Head: Mrs. I. Janetzky.

HOME SERVICE:

French Network

Bruxelles I	(Nat.)	620 kc/s	483.9 m	150 kW
Bruxelles IV	(Reg.)	1124 –	266.9 –	10 – *)

FM

Anlier	(Nat.)	91.5mc	10 kW	Houdeng (Reg.)	87.6mc 10 kW*)
Bruxelles (3.prgr.)		96.1 –	10 –	Liège (Reg.)	90.6 – 10 – *)
Houdeng (3.prgr.)		96.1 –	10 –	Anlier (Reg.)	96.6 – 10 – *)
Liège	(3.prgr.)	99.0 –	10 –		

*) Prgr.'s from studios in Mons, Namur, Liège.

620 kc/s (rel. on FM 91.5 mc/s from 1st May 1961):
W. 05.30–22.00 (Sat. 23.00), Sun. 05.30–23.00.
N., Wrp.: 05.30, 06.00, 07.00, 08.00, 09.00, 11.00, 12.00, 13.00, 15.00, 16.00, 17.00, 18.30, 21.00, 21.55. Sat., Sun. 22.55. – **Wrp.:** 10.50.
1124 kc/s (rel. from 1/5 1961 on FM 87.6 mc/s, 90.6 mc, 96.6 mc): 09.00–14.30, 17.00–22.00.
95.4 mc, 96.1 mc, 99.0 mc: Time-table not yet fixed. Begin 1/5 1961.
Symphony Concert: Tues. 19.00–21.00.

Flemish Network

Brussels II	(Nat.)	926 kc/s	324.0 m	150 kW
Brussels III	(Reg.)	1511 –	198.5 –	20 – *)

FM

Ruiselede	(Nat.)	98.7 mc	10 kW
Brussels	(3. prgr.)	94.7 –	10 –
Ruiselede	(3. prgr.)	88.2 –	10 –
Ruiselede	(Reg.)	93.0 –	10 – *)
Genk	(Reg.)	88.5 –	10 – *)

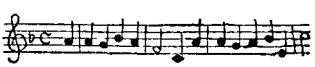
*) Prgr. from studios in Kortrijk, Ghent, Antwerp and Hasselt.

926 kc/s (rel. on FM 98.7 mc/s from 1/5 1961):
W.: 05.30–22.00 (Sat. 23.00), Sun. 05.30–23.00. – **N., Wrp.:** 05.30, 06.00, 07.00, 08.00, 11.30, 12.00, 16.00, 18.00, 21.00, 21.55. Sat., Sun. 22.00. – **Wrp.:** 05.30, 07.00, 11.30.
1511 kc/s (rel. from 1/5 1961 on FM 93.0 mc, 88.5 mc): 09.00–13.00, 16.00–22.00.
94.7 mc/s, 88.2 mc/s: Time-table not yet fixed. Begin 1/5 1961.
Symphony Concert: Fri. 19.00–21.00.

German Prgr.: FM Liège 94.2 mc/s 10 kW.
D. 16.00–18.00 or 17.00–19.00 varied prgr. and N.

ANN.: F. "Radiodiffusion-Télévision Belge". – Fl. "Belgische Radio en Televisie". – Germ. "Belgischer Fernseh-Rundfunk".
INT.-SIG.: F. **Network:** Extract from Grety's famous melody "Ou peut-on tre mieux".

Fl. Network: The first movement of "Beiaarlied" (Extract from Rubens' cantata by Peter Benoit).



V. by QSL-card or letter. – **PUB.:** "De Radio and Televisieweek" (weekly).

INTERNATIONAL SERVICE

ADDR.: Direction of Overseas Service and International Relations of R.T.B./B.R.T., 18, Place Eugène Flagey, Brussels 5 (for listeners and QSL-cards: Box 26, Brussels 1). **Cable:** INR Mondial Brussels. **Te.:** 48.81.00. – **L.P.:** Executive Dir.: F. Zoete. Dir. Intern. Rel.: L. Wallenborn. Heads: News: H. de Thier. Transcription and Monitoring: M. Swaenepoel.

STATIONS: ORU Wavre, ORU3/ORU4=100 kW. ORU5=20 kW.

	kc	m		kc	m		kc	m
ORU5	6.000	50.00	ORU3	9.765	30.72	ORU5	17.845	16.80
ORU3	6.140	48.86	ORU4	11.720	25.60	ORU3	17.860	16.79
ORU3	9.705	30.91	ORU3/5	15.335	19.56	ORU4	21.510	13.94
ORU3/5	9.745	30.78	ORU5	15.435	19.44	ORU5	21.725	13.76
						ORU5	21.845	13.73

Abbreviations: F.=French, Fl.=Flemish, C.=Congolese, E.=English, I=Africa, II=No. America, III=So. America, IV=So. Europe, V=Far East.

Time	L.	Areas	6/11– 4/3 m.b.	5/3– 31/5 m.b.	7/5– 3/9 m.b.	4/9 6/11 m.b.	
05.00–12.00	F/Fl/C	I	–	16–13	–	16–13	
05.00–05.45	F/Fl/C	I	25–30–50	19		19	
05.00–06.45	F/Fl/C	I			30–19–25		
06.00–12.00	F/Fl/C	I	16–13	13		13	
07.00–12.00	F/Fl/C	I			16–19		
12.15–13.00	F/Fl	V	16	16	16	16	a)
		I	13	13	16	13	a)
		IV	19	19	19	19	a)
13.30–16.00	F/Fl/C	I	16–13	16–13	16–13	16–13	b)
16.00–16.45	F/Fl/C	I	16–13	16–13	16–13	16–13	
17.00–17.45	F/Fl	II	19	19	19	19	a)
		I	16	13	16	13	a)
		III		19		19	
		IV	19		19		
18.00–21.00	F/Fl/C	I	25–30	25–30	19	25–30	
18.00–19.45	F/Fl/C	I	30	19	16	19	
20.00–21.00	E	II	48	48	48	48	
21.15–23.00	F/Fl	II	30	19	19	19	c)
		III	25	25	19	25	c)
		IV	50	50	25	50	c)
23.15–24.00	F/Fl	I	30–50	30–25	30–25	30–25	c)
		II	30	25	25	25	c)
00.00–01.00	E/Fl	I	30–50	30–25	30–25	30–25	d)
		II	30	25	25	25	d)

a) For missionaries and seamen (alternatively in French and Flemish. b) Sat. and Sun. (sport). – c) For Belgian seamen and Belgians in the world (altern. Fr. & Fl.). – d) Mo. and Fri.: 00.00–00.45. – Flemish prgr. 00.45–01.00.

ANN.: F.: "Ici Bruxelles, Radiodiffusion-Télévision Belge, Emissions Mondiales". – Fl.: "Hier is Brussel, de Belgische Radio en Televisie, Wereldomroep". – E.: "This is Brussels, the Belgian Radio and Television, Overseas Service station ORU".

SIGNALS: Starting: Xylophone. – Int.Sig.: "Où peut-on être mieux". Closing: Belgian National Anthem. – V. by QSL-card.

★ BULGARIA ★

L.T.: GMT+2 h. – Pr.L.: Bulgarian – Po.: 7.620.000 – Rcvrs.: 1.383.758 – E.C.: 150/220 V., A.C., 50 c/s.

BULGARIAN BROADCASTING SERVICE (Go.)

FI.: By state. AD.: 30 min. per day.

ADDR.: Bulgarian Broadcasting at the Ministry of Education and Culture, 4 Dragan Zankov Str., Sofia. Cable: Bolgarradio. Te.: 7.10.44.

HOME SERVICE:

	kc/s	m	kW		kc/s	m	kW
Sofia II	593	506	60	Stara Zagora	1223	235	20
Sofia I	827	362.7	100	Pavlovo	1484	202	2
Varna	1124	267	5	Sofia III	7670	39.11	50

03.25–08.37 on 593, 1124, 1223, 1484 kc/s.
08.37–09.55 on 827, 7670 kc/s.
09.55–14.55 on 593, 827, 1124, 1223, 7670 kc/s.
14.55–20.30 on 593, 1484 kc/s.
20.30–22.00 on 593, 1124, 1223, 1484 kc/s.

N.: 03.30, 04.30, 08.30, 10.30, 14.00, 16.00, 18.30, 20.30, 21.45. – Wrp.: 03.40, 10.45, 18.45. – Folklore Music: Mostly at 04.00–07.00, 10.00–12.00, 17.00–19.00.

FOREIGN SERVICE:

593 kc/s	506.0 m	60 kW	7255 kc/s	41.35 m	120 kW
827 –	362.7 –	100 –	7670 –	39.11 –	50 –
1124 –	267 –	5 –	9700 –	30.93 –	120 –
1223 –	245 –	20 –	11850 –	25.32 –	120 –
6070 –	49.92 –	120 –	15330 –	19.57 –	120 –

TO EUROPE & M. EAST

Arabic	kc/s
11.30–11.55	7255, 9700, 11850
17.00–17.55	7255, 9700
19.30–20.00	7255, 7670, 11850

Bulgarian	
12.30–12.45	9700, 11850
22.15–22.25	7255, 9700

English	kc/s
19.35–20.00	9700
21.30–22.00	7255, 9700, 11850
23.35–24.00[1])	9700, 11850 (music)
Esperanto	
19.00–19.30[2])	7670
22.30–22.55[2])	7255, 9700

French	kc/s
19.00–19.25	6070, 11850
21.00–21.30	9700, 11850

German	
20.05–20.55	6070, 11850

Greek	
06.00–06.30	827, 7255, 7670
12.00–12.25	6070, 7255
16.00–16.30	6070, 7255, 11850
19.00–19.25[3])	7255, 7670
20.30–21.00	827, 7670

Italian	
18.30–19.00	7255
20.00–20.30	7255, 7670
21.00–21.30	7255, 7670

Macedonian	
04.30–05.00[3])	827, 7255, 7670
21.00–21.30	827

Serbo-Croatian	
05.00–05.30[3])	827, 7255, 7670
06.30–08.30[3])	827, 7255, 7670
18.00–18.30	6070, 7255, 11850
21.30–22.00	827, 7670

Spanish	kc/s
22.30–22.55[4])	9700, 11850, 15330
00.00–00.25[5])	7255, 11850

Turkish	
05.30–06.00	827, 7255, 7670
15.30–16.00	7255, 11850
16.30–16.55	6070, 7255, 11850
18.30–18.55	6070, 7670, 11850

NO. AMERICAN SERVICE

Bulgarian	kc/s
00.00–00.30	9700

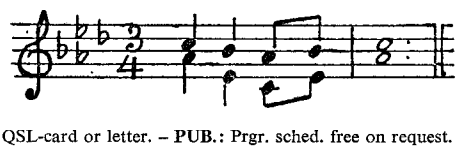
English	kc/s
23.35–24.00[6])	9700, 11850 (music)
01.00–01.30	9700
04.00–04.30	9700

SO. AMERICAN SERVICE

Bulgarian	kc/s
23.00–23.30	9700, 11850
00.30–01.00	11850, 15330

[1]) also f. No. America – [2]) Sun. only – [3]) not Sun. – [4]) Tues., Thurs. & Sat. – [5]) Wed., Fri., Sun. – [6]) also for Europe.

ANN.: Home Sce.: "Govori Sofia". – Foreign Sce.: E.: "This is Sofia Bulgaria calling". – F.: "Ici Sofia, Radiodiffusion Bulgare". – Tu.: "Burasi Sofia radiosu". – Gr.: "Milai i Sofia". – G.: "Hier spricht Sofia Bulgarien". – I.: "Qui è Radio Sofia". – Arabic: "Huna Sofia". INT.-SIG.: The beginning of a Bulgarian song, which begins with the words "Dear Homeland":



V. by QSL-card or letter. – PUB.: Prgr. sched. free on request.

★ CZECHOSLOVAKIA ★

L.T.: GMT+1 h. – Pr.L.: Czech, Slovak. – Po.: 13.650.000. – Rcvrs.: 3.509.982 (31/7 1960). – E.C.: 110/220/380 V., A.C., 50 c/s.

ČESKOSLOVENSKY ROZHLAS (Go.)

F.I.: By license payments. – ADDR.: Czechoslovak Radio, Praha 2, Stalinova 12. Cable: Radiopraha. Te.: 232151. – L.P.: Dir. Gen.: K. Hoffmann. Dir. Foreign Service: B. Svec. Dir. Prgr.: Dr. J. Kolář. Dir. of Cz. Radio in Bratislava: J. Riečan. Dep. Dir. Gen.: K. Zavadil. Dir. Adm.: V. Ferst. Dir. Tec.: M. Junek. Head of For. Rel.: Karol Reif.

HOME SCE.: Medium Waves

Name	kc/s	m	kW	Name	kc/s	m	kW
ČS I	272	1102.9	200	ČS I	1286	233.3	100
Praha	638	470.2	150	Praha	1484	202.2	2
Bratislava	701	427.2	100	ČS I	1484	202.2	2
Praha	953	314.7	100	Bratislava	1484	202.2	2
Praha	953	314.7	15	ČS I	1520	197.3	1
Bratislava	1097	273.5	150	Praha	1594	188.0	2
Bratislava	1232	243.5	100	FM: Praha 66.67 mc/s 1 kW			

CS: In Czech, Slovak: 03.30 (Sun. 05.00)–01.00.

N., Wrp.: W. 03.30, 04.30, 05.30, 06.00, 07.00, 10.00, 12.00, 14.00, 16.00, 18.00, 21.30, 22.50, 00.55. Sun. 05.00, 07.45, 08.45, 12.00, 18.00, 21.30, 22.50, 00.55. – Night concerts (with multilingual ann.): D. 21.50–22.50. – L.L.: Russian: Tues. 08.00–08.15.

PRAHA: In Czech: 03.30 (Sun. 05.00)–23.00.

N., Wrp.: W. 03.30, 04.00, 05.00, 06.00, 07.40, 11.30, 13.00, 15.00, 17.40, 20.30, 22.50. Sun. 05.00, 06.45, 11.00, 17.40, 20.30, 22.50. – L.L.: Russian: Wed. 14.15–14.30.

On 1286 kc/s: Bulgarian Sat. 16.30–17.00.

On 1520/1594 kc/s: Polish W. 15.50–16.00, on Wed. also 14.00–14.30.

On 701/1232 kc/s: German W. 15.00–15.15, Sun. 07.30–08.30.

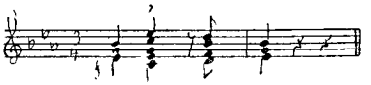
BRATISLAVA: In Slovak: 04.00 (Sun. 05.00)–23.00.

N., Wrp.: 04.00, 05.00, 06.00, 09.00, 11.00, 13.00, 15.00, 17.00, 20.30, 22.50. – L.L.: Russian: Wed. 15.45–16.00.

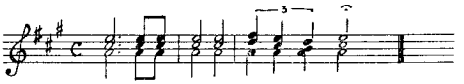
Hungarian W. 06.00–07.00, 11.00–13.00, Sun. 08.00–14.00. – Ukrainian: W. 06.15–06.25, 15.10–15.40, Fri. also 09.05–09.35, Sun. 15.00–15.30.

Czechoslovakia

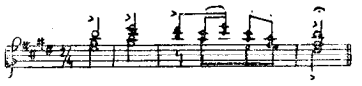
INT.-SIG.: HOME SCE.:
CS: The two opening bars of Smetana's symphonic Poem "Vyšehrad"



Praha II: Fanfares from a March by V. Dobiás.



Bratislava: Fanfares from a March by B. Urbanec:



FOREIGN SERVICE

100 kW exc. 1097 kc/s 150 kW. Valid from 6/11 60.

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
1097	273.5	7185	41.75	7340	40.87	9670	31.02	15125	19.83
1286	233.3	7235	41.47	9504	31.57	11725	25.59	15285	19.63
5935	50.54	7255	41.35	9550	31.41	11840	25.34	17755	16.90
6055	49.55	7275	41.24	9585	31.30	11990	25.02	21450	13.99

EUROPEAN SERVICE:

English	kc/s
12.15–12.45	9504, 11725, 15285
19.00–19.27	6055, 9550
22.00–22.30	1286
23.10–23.40	1097
French	
11.15–11.45	9504, 11725, 15285
20.30–21.00	1286
21.30–22.00	1286

German	kc/s
09.00–10.30	7275, 9504
18.00–18.30	1286
19.00–19.30	1286
20.00–20.30	1286
German for Austria	
10.30–11.10	7275, 9504, 11725
16.00–16.25	6055, 7185
17.15–18.00	1286

Greek	kc/s
17.30–17.57	6055, 9550
19.30–19.57	6055, 9550
Italian	
17.00–17.27	6055, 9550
18.30–19.00	1286
21.30–21.57	5935, 7340
Portuguese	
18.30–19.00	11730, 15125, 17755
23.30–00.00	1286
Serbo/Croat	
09.30–10.00	*7255, 9550, 11725
16.00–16.25	5935, 7235, 11840
19.30–19.55	5935, 7235, 9670
*) Sun. only	
Spanish	
13.00–13.30	11840, 15285, 17755, 21450
22.00–22.25	5935, 7340, 9550, 11990, 15285
23.00–23.30	1286
Swedish	
10.00–10.30	7255, 9550, 11725
16.30–17.00	6055, 9550
18.30–18.57	6055, 9550

OVERSEAS SERVICE:
TO NORTH AMERICA

Czech/Slovak	kc/s
22.30–23.00	7340, 9550
01.00–02.00	7340, 9550
02.30–03.00	5935, 7340, 9550
English	
03.00–04.00	5935, 7340, 9550
Spanish (also for Mexico)	
23.00–23.30	7340, 9550
00.00–00.30	7340, 9550
04.30–05.00	5935, 7340, 9550

TO SOUTH AMERICA

Czech/Slovak	kc/s
22.30–23.00	9585, 11990
01.00–02.00	9585, 11725, 11990
04.00–04.30	9585, 11990
English	
05.00–06.00	9585, 11990
Portuguese	
21.30–22.00	9550, 11990, 15285
23.30–24.00	9550, 11725, 11990, 15285
00.30–01.00	9585
Spanish	
23.00–23.30	11990, 15285
02.00–02.25	9585, 11725, 11990
04.30–05.00	9585, 11990

TO FAR EAST, AUSTRALIA

English	kc/s
08.00–08.55	11840, 15285, 21450

TO NEAR EAST

Arabic	kc/s
16.30–17.25	11840, 15125, 17755
20.00–20.55	9670, 11990, 15285

TO AFRICA

English	kc/s
18.00–18.30	9550, 11840, 15125, 17755
French	
17.30–18.00	11840, 15125, 17755

ANN.: E.: "This is Prague". – **Arabic:** "Huna Pragh". – **F.:** "Ici Prague, Tchécoslovaquie". – **I.:** "Qui Praga, Cecoslovacchia". – **C.:** "Hier spricht Prag". – **Greek:** "Edo Praga". – **Yugoslavian:** "Govori Prag". – **Sp.:** "Aqui Radio Praga, Checoslovaquia". – **P.:** "Aqui fala a Radio Praga". – **Swedish:** "Här är Prag". – **Czech/Slovak:** "Posloucháte

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the latest developments in the television and sound broadcasting networks on metric waves,

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the installation and operation of transmitting stations and studio centres, of recording systems and outside-broadcast facilities, both for sound and television,

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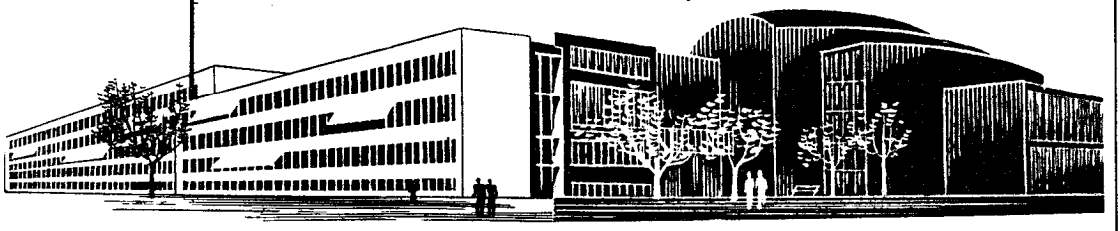
Listen to
THE VOICE OF DENMARK

The Danish short wave transmissions are beamed to North America, South America, Africa, India and the Far East



To North America on 31.51 m – 9.520 kc/s.
Daily 1.30 – 2.30 and 3.00 – 4.00 GMT. E.S.T.: 8.30 – 9.30 and 10.00 – 11.00 p. m.
DX-bulletin: Wednesdays 2.00 – 2.10 a. m. and 3.30 – 3.40 a. m. GMT.

To South America on 19.78 m – 15.165 kc/s. (Dec. and January 31.51 – 9.520 kc/s).
Mondays, Wednesdays and Fridays 22.30 – 23.30 GMT.

To Far East, Australia and New Zealand on 19.78 m – 15.165 kc/s.
Tuesdays, Thursdays and Saturdays 9.00 – 10.00 a. m. GMT.
DX-bulletin: Thursdays 9.50 – 10.00 a. m. GMT.

To South Asia on 19.78 m – 15.165 kc/s.
Tuesdays, Thursdays and Saturdays 14.30 – 15.30 GMT.
DX-bulletin: Thursdays 15.20 – 15.30 GMT.

To Africa and the Near East on 19.78 m – 15.165 kc/s.
Tuesdays and Fridays 16.40 – 17.40 GMT.

For Listeners in Africa and the Near East 19.78 m – 15.165 kc/s.
Daily 17.40 – 21.15 GMT. rebroadcast of Danish home service.

Special broadcasts to Danish ships daily 6.30 – 7.00 GMT. Far East 19.78 m – 15.165 kc/s, 14.00 – 14.30 GMT. South Asia 19.78 m – 15.165 kc/s, 16.00 – 16.30 GMT. Mediterranean and Middle East 19.78 m – 15.165 kc/s, 22.00 – 22.30 GMT. South America 19.78 m – 15.165 kc/s, (Dec. and January 31.51 m – 9.520 kc/s), and North America 31.51 m – 9.520 kc/s, 01.00 – 01.30 GMT.

Listeners all over the world are invited to send reception reports together with their criticisms and programme suggestions to

the **SHORTWAVE DEPARTMENT, RADIO HOUSE, COPENHAGEN V., DENMARK**

Answer by letter or QSL-card

Prahu, vysílání Čs. rozhlasu pro krajany". – **INT.-SIG.**: The opening bars of the song "Forward Left" by J. Seidl.

V. by QSL-card or letter. – **PUB.**: Weekly: "Československy rozhlas a televise". Weekly: Prgr.-sched. in English and Russian. Foreign Sce. sched. free on request. Every fortnight: "Rozhlasová práce".

Adv.:
Message to Listeners: Listeners are asked to send us their comments and programme suggestions and reports on reception conditions. Radio Prague is carrying out a continuous reception survey, and welcomes the cooperation of listeners throughout the world.

★ DENMARK ★

L.T.: GMT+1 h. – **Pr.L.**: Danish. – **Po.**: 4.554.298. – **Rcvrs.**: 1.521.680 31/3 60. – **E.C.**: 220 V., A.C., 50 c/s, D.C.

RADIO DENMARK (Go.)

FI.: by license payments. – **ADDR.**: Radio Denmark, Radiohuset, Rosenørnsallé 22, Copenhagen. – **Cable**: "Danradio". – **Te.**: Central 647. – **L.P.**: Dir. Gen.: F. E. Jensen. Prgr. Dir./Sound: Aksel Dahlerup. Prgr. Dir./TV: Jens Fr. Lawaetz. Dir. Adm.: J. Jannik. Dir. Secretariate: Ejnar Jensen. Dir. Music: Vagn Kappel. Dir. Spoken Word: Hans Sølvhøj. Dir. Drama: Felix Nørgaard. Dir. Entertainment: Svend Pedersen. Dir. Inf. and Shortwave: P. Berg. Dir. Tec.: Fr. Heegaard. Dir. N.: N. Grunnet.

HOME SERVICE:
1st PRGR.: W.: 05.00–22.05. Sun.: 07.00–22.05.

	kc/s	m	kW		kc/s	m	kW
Kalundborg I	245	1224	150	København I	1484	202	2[1]
København II	1430	210	10	Herstedvester	15165	19.78	50[2]

[1]) 17.00–22.00 only. [2]) 17.40–21.15 only.

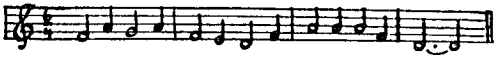
N.: 05.00(W), 06.00(W), 07.00, 08.00(W), 11.30, 13.30(Mo.–Fri.), 14.00(Sat.), 17.45, 21.00, 22.00. – **Wrp.**: 07.45, 10.50(W), 10.55(Sun.), 16.40. – **L.L.**: **French**: Mo., Thurs. 17.00–17.20. **English**: Tues. 17.00–17.20, 21.35–22.00, Thurs. 21.15–21.35. **German**: Mo., Thurs. 17.20–17.40. **Spanish**: Sun. 07.20–07.40. **Swedish**: Sun. (fortnightly) 07.40–08.00. **Russian**: Fri. 21.35–22.00. – **Request Prgr.**: Sun. 11.00–13.00. Tues. 18.15–19.15. – **Rel.**: Sun. 09.00, 13.00, W. 07.30.
2nd PRGR.: W.: 17.00–22.05. Sun.: 07.00–11.00, 17.00–22.05.

	kc/s	m	kW		kc/s	m	kW
Kalundborg II	1061	283	60*	Ålborg	1484	202	0.25
København II	1430	210	10*	Tønder	1484	202	0.25
Skive	1430	210	70	Esbjerg	1594	188	2

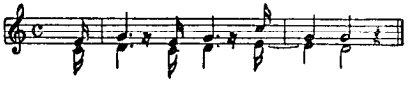
* not Mo. 18.15–18.45.

FM:	Prgr.1 mc/s	Prgr.2 mc/s	kW		Prgr.1 mc/s	Prgr.2 mc/s	kW
Odense	89.0	96.8	30	Næstved	94.8	97.5	60
København	90.8	96.5	26	Vestjylland	90.2	99.2	60
Århus	91.7	95.9	30	Bornholm	94.5	99.3	30
Ålborg	93.3	88.1	30	Sønderjylland	95.1	99.9	60

Regional Programmes: Mo. 18.15–18.45.
North Jutland: Skive 1430 kc/s, Ålborg 1484 kc/s & 98.1 mc/s. Middle Jutland: Århus 95.9 mc/s – West Jutland: 99.2 mc/s – So. Jutland: Esbjerg 1594 kc/s, Tønder 1484 kc/s – South Jutland 99.9 mc/s – Funen: Odense 96.8 mc/s – Seeland: Næstved 97.5 mc/s, København 96.5 mc/s – Bornholm: Bornholm 99.3 mc/s.
ANN.: "Danmarks Radio Program I (Program II)". – **INT.-SIG.**: Prgr. I: From an old Danish folksong: D. at 11.00 and 19.00: The chimes of the Town Hall in Copenhagen.



Prgr. II:



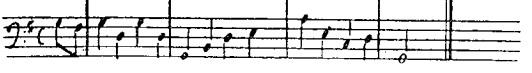
FOREIGN SERVICE: (DS = Danish Ships).

kc/s	m	kW		kc/s	m	kW		kc/s	m	kW
OZF3 6060	49.50	50	OZF5	9520	31.51	50	OZF9	15320	19.58	50
OZF4 7260	41.32	50	OZF7	15165	19.78	50				

01.00–01.30 D.	on	9520 kc/s	DS (N.Am.)
01.30–02.30 D.	on	9520	– N.Am.
03.00–04.00 D.	on	9520	– N.Am.
06.30–07.00 D.	on	15165	– DS (FE)
09.00–10.00 Tues., Thurs., Sat.	on	15165	– FE, Au, NZ[1])
14.00–14.30 D.	on	15165	– DS (S.As.)
14.30–15.30 Tues., Thurs., Sat.	on	15165	– S.As.
16.00–16.30 D.	on	15165	– DS (ME)
16.40–17.40 Tues., Fri.	on	15165	– Af., ME[2])
17.40–21.15 D. (Home Sce.)	on	15165	– NE
22.00–22.30 D.	on	15165	– DS (S.Am.)[3])
22.30–23.30 Mo., Wed., Fri.	on	15165	– S.Am.

[1]) Last 30 minutes in **English**. [2]) First 30 minutes in **English**.
[3]) Dec. and Jan. on 9520 kc/s.

Prgrs. in **Danish** consist of **N., Music, Songs, Talks and Features** about life in Denmark and **Reportages.** – On all weekdays the broadcast to U.S. and Canada consists of a 30 minute prgr. in **Danish** and 30 minute prgr. in **English.**
A sketch of a weeks prgr. in **Danish** and in **English: Mo.**: N., Literary, Music, D. Views on the N., Classical Da. Music. – **Tues.**: N., Reportage, Entertainment, **DX-Bulletin** (02.00, 03.30). – **Wed.**: N., Entertainment, Actualities, Da. Folk Music. – **Thurs.**: N., Feature, Quiz, Concert. **DX-Bulletin** (09.50, 14.50.) – **Fri.**: N., Talk, Light Music, Anything-anybody. – **Sat.**: N., Light Prgr., Saturday Night Club. – **Sun.**: Church Service, Da. Music, Reportage. – The Saturday Night Club will also contain letters from listeners and musical requests – On Wed. 23.00–23.30 (N. and Music) and on Fri. 23.15–23.30 a special prgr. (Feature and Music) in **Spanish** (To South America).
ANN.: "Danmarks Kortbølgesender" – "You are tuned to the Voice of Denmark" – Every transm. begins with the chimes of the Town Hall, followed by the National Anthem. – **INT.-SIG.**: The first bars of "Som en rejselysten Flaade" composed by Carl Nielsen:



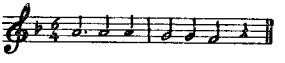
Message to Listeners: The Danish State Radio is anxious to receive reports on prgr. and on reception conditions from all parts of the world. It makes every endeavour to get into touch with countrymen and listeners in countries abroad with a view to provide the best possible short wave service. – **V.** by letter or QSL-card.

INTERNATIONAL WATER RADIO MERKUR (Comm.)

ADDR.: Adolphsvej 61, Gentofte. Adv. Dep.: Rømersgade 9, Copenhagen K. – **L.P.**: Dir. P. Jansen, I. Fogh. Dir. Adv. Dept.: A. Paaby. Chief of Prod.: B. Knudsen. Dir. of Prgr.: H. Vangkilde. Dir. Tec.: W. Petersen.
88.0 mc/s 7 kW: W. 05.00–08.30, 14.30–23.00 (Sat. 24.00). Sun. 07.30–11.00, 14.30–23.00.
89.6 mc/s 7 kW: 11.00–13.00, Sun. 11.00–14.00. Prgr.s in Swedish.

★ FAEROE ISLANDS (Danish Territory) ★

L.T.: GMT. – **Pr. L.**: Faroese. – **Po.**: 35.000 – **Rcvrs.**: 5.600. **E.C.**: 220 V, A.C., 50 c/s.
ADDR.: Utvarp Föroya, Tórshavn. **Te.**: 2432. – **L.P.**: Mgr.: N. J. Arge.
HOME SCE.: 1367 kc/s 219 m 5 kW: 12.20–12.45, 18.30–19.45. Prgr. consists of Wrp., N. from the Faroes, foreign N., music. In the evening prgr. also lectures.
ANN.: "Faroe Radio – Utvarp Föroya". – **INT.-SIG.**:



V. by letter. Rp. Re. in English or Scandinavian.

★ FINLAND ★

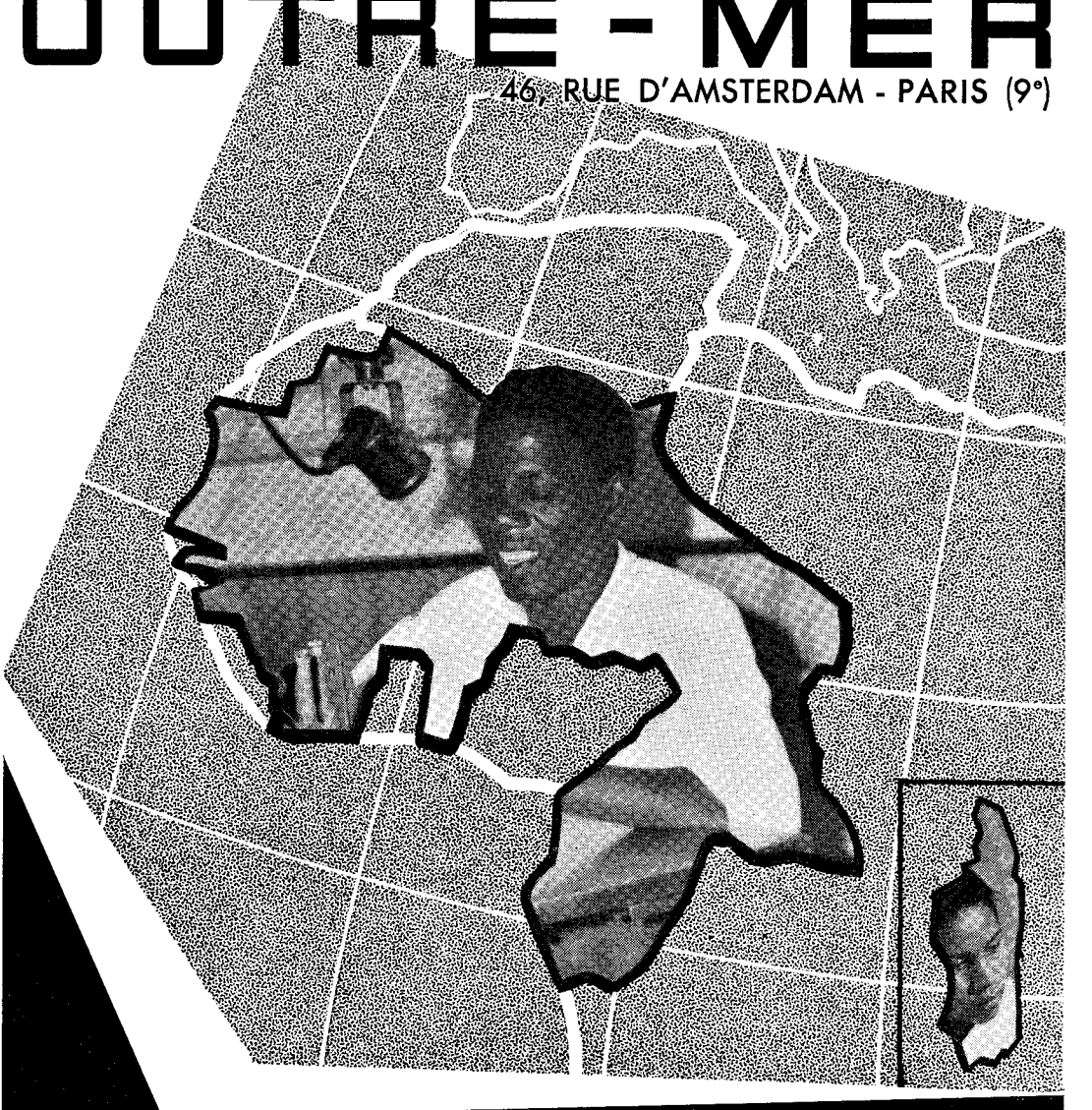
L.T.: GMT+2 h. – **P.L.**: Finnish, Swedish. – **Po.**: 4.453.073 1/1 1960. – **Rcvrs.**: 1.220.000 (1/1 60). – **E.C.**: 110/127. 220/230. A.C., 50 c/s.

OY YLEISRADIO AB (Go.) – F.I.: By license payments.

ADDR.: Unioninkatu 16, Helsinki. **Cable**: Yleisradio. **Te.**: 30691. – **L.P.**: Dir. Gen.: E. Sundström. Dir. Adm. and Dept. Dir. Gen.: O.

RADIODIFUSION OUTRE-MER

46, RUE D'AMSTERDAM - PARIS (9e)



RÉSEAU DES STATIONS

- RADIO **SÉNÉGAL** - *DAKAR*
- RADIO **MAURITANIE** - *ST LOUIS, NOUAKCHOTT*
- RADIO **SOUDAN** - *BAMAKO*
- RADIO **HAUTE VOLTA** - *OUAGA-DOUGOU*
- RADIO **NIGER** - *NIAMEY*
- RADIO **COTE D'IVOIRE** - *ABIDJAN*
- RADIO **DAHOMEY** - *COTONOU*
- RADIO **TOGO** - *LOME*
- RADIO **GABON** - *LIBREVILLE*
- RADIO **CONGO** - *BRAZZAVILLE*
- RADIO **BANGUI** - *BANGUI*
- RADIO **TCHAD** - *FORT LAMY*
- RADIO **CAMEROUN** - *YAOUNDE, DOUALA, GAROUA*
- RADIO **MADAGASCAR** - *TANANARIVE (2 chaînes)*

Toivonen. Dir. Finnish Prgr.: J. Koskiluoma. Dir. Swedish Prgr.: C. Schildt. Dir. Tec.: J. Rissanen. TV-Prgr.: V. Zilliacus. Head For. Tel.: E. Vallila.

HOME SERVICE

FINNISH NETWORK: W. 04.30–06.10, 08.50–12.10, 15.00–21.00 (Sat. 14.00–22.00), Sun. 05.45–21.00.

L-M Waves:	kc/s	m	kW		kc/s	m	kW
Lahti	254	1181	200	Helsinki III	845	355	0.2
Oulu	433	693	10	Helsinki II	1412	212	2
Joensuu	520	577	1	Tampere	1421	211	1
Kupio	755	397	20	Turku II	1484	202	0.2
Ylivieska	836	359	10	Pori	1484	202	1

FM:	mc/s	kW		mc/s	kW		mc/s	kW
Taivalkoski	88.3	30	Tammis-			Ylivieska II	96.1	5
Mikkeli	88.9	10	saari I	93.1	3	Kaunispää	96.4	15
Forssa	89.2	0.1	Tampere I	93.7	50	Rovaniemi	96.7	10
Mänttä	89.8	0.1	Ylivieska I	94.0	10	Pihti-		
Koli	90.1	15	Turku I	94.3	25	pudas	97.0	10
Oulu I	90.4	25	Kristiina I	94.6	10	Oulu II	97.3	0.6
Tampere II	90.7	50	Iisalmi	94.9	0.7	Pori I	97.3	15
Imatra	91.0	15	Sammaltun-			Lahti II	97.9	15
Kuopio	91.6	25	turi	95.2	15	Pyhätun-		
Helsinki I	91.9	40	Vaasa I	95.2	25	turi	97.9	15
Jyväskylä	92.2	10	Lahti I	95.5	15	Ähtäri	98.5	40
Rauma	92.5	0.1	Savonlinaa	95.8	10	Pello	98.8	15
Kemi	92.8	10	Kotka	96.1	0.3	Kajaani	99.4	40
						Kokkola	99.7	10

The FM-stations broadcast the Finnish main prgr. and in addition music prgr. on W. at 14.00–15.00 (Sat. 12.10–14.00).
N., Wrp.: W. 04.30, 06.00, 10.30, 14.55, 17.00, 20.00, Sun. 06.30, 10.30, 17.00, 20.00. – **L.L.: English:** Mo., Thurs. 20.45–21.00. **Swedish:** Sun. 06.00–06.20. – **Rel.:** Morning Prayer: W. 05.45–06.00. Evening Prayer: Mo., Wed., Fri. 17.30–17.40. Morning Sce.: Sun. 08.00–09.15.

BILINGUAL NETWORK: (Finnish & Swedish)
W.: 04.30–06.10, 08.50–12.10, 15.00–21.00. Sun. 05.45–21.00.

M.W.:	kc/s	m	kW		kc/s	m	kW
Helsinki I	557	539	100	Turku I	962	312	100
Pietarsaari	1484	202	1	Vaasa	1241	242	25
Tammisaari	1484	202	0.2				

Short Wave:
Pori OIX7 6120 49.02 15

FM:	mc/s	kW		mc/s	kW		mc/s	kW
Helsinki II	94.0	40	Pietarsaari	97.6	10	Tammisaa-		
Kristiina II	90.1	10	Pori II	99.4	3	ri II	89.5	3
Loviisa	89.2	0.05				Turku II	98.2	25
						Vaasa II	93.1	25

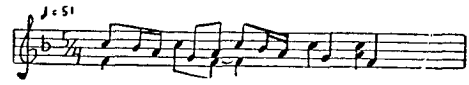
Swedish Prgr.: W.: 04.40–04.50, 05.30–05.45, 06.10–06.20, 10.40–10.50, 14.50–14.55, 17.15–17.30, 20.10–22.20. Sun.: 06.40–07.05, 10.40–10.50, 11.00–12.35, 17.15–17.45, 20.10–20.20.
Additional Swedish Prgr.: 11.10–12.10 (Tues., Fri.), 14.35–14.50 (Mo., Fri.), 16.00–17.55 (Mo., Wed., Fri.), 17.30–18.30 (Tues.), 17.30–18.30 (Thurs., Sat.), 20.20–21.00 (Tues., Fri.), 20.20–22.35 (Wed.).
FM Stations only: 16.00–16.55 Sun., Tues., Thurs.; 17.30–18.15 Mo.; 17.30–18.30 Wed., 17.30–18.05 Fri., 16.05–16.55 Sat.
N., Wrp.: W.: 04.40, 06.10, 10.40, 14.50, 17.15, 20.10, Sun.: 06.40, 10.40, 17.15, 20.10.
Rel.: Morning Prayer W. 05.30–05.45. Evening Prayer Tues. (only FM st.'s) Fri. 16.45–16.55. Morning Sce. Sun. 11.00–12.20.
Exclusively Swedish programs: FM: Mariehamn 91.3 mc/s 5 kW.

FOREIGN SERVICE

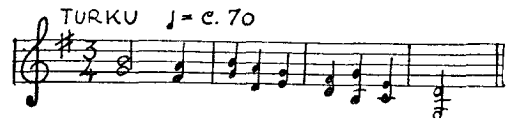
STATIONS: Pori.
OIX7 6120 kc/s 49.02 m 15 kW OIX4 15190 kc/s 19.75 m 100 kW
OIX2 11960 – 25.08 – 10 – OIX5 17800 – 16.85 – 15 –
TO EUROPE
On 6120 kc/s: Relay Home Sce. in **Finnish, Swedish** (see bilingual netw.)
On 11960, 15190, 17800 kc/s: D. 16.00–18.30 in Finnish, Swedish.
Finnish: Sun., Tues., Sat. 16.00–17.30; Mo. 16.30–18.30, Wed. 16.00–17.40, Thurs. 16.00–18.30, Fri. 16.30–17.30.
Swedish: Tues. 17.30–18.20, Wed. 17.40–18.30, Fri. 17.30–18.05, Sat. 17.30–18.30. – **Prgr. for seamen in Finnish & Swedish:** Sun. 17.30–18.30.
English: Mo. 16.00–16.30: **"Finlandia Mixture"**. Fri. 16.00–16.30: 1st, 3rd Fri. **DXPrgr. "Around the World"**, other Fridays **"Musical Mailbag"**; also 21.00–21.30 on 6120 kc/s.
TO NO. AMERICA on 11960, 15190, 17800 kc/s:
I (Oct. 1st–March 31st): D. 11.30–14.00.
II (April 1st–Sept. 30th): D. 20.30–23.00.
Finnish: I: Sun., Mo., Wed. 11.30–13.00, Tues. 12.00–14.00, Thurs. 11.30–13.10, Fri. 11.30–14.00, Sat. 12.00–13.00. – II: Sun., Tues., Sat. 20.30–22.00, Mo. 21.00–23.00, Wed. 20.30–22.10, Thurs. 20.30–23.00, Fri. 21.00–22.00.
Swedish: I: Sun. 13.00–14.00, Wed. 13.00–13.50, Thurs. 13.10–14.00, Sat. 13.00–13.35. – II: Tues. 22.00–22.50, Wed. 22.10–23.00, Fri. 22.00–22.35, Sat. 22.00–23.00.

Prgr. for seamen in Finnish & Swedish: I: Mo. 13.00–14.00, II: Sun 22.00–23.00.
English: "Finlandia Mixture": I: Tues. 11.30–12.00; II: Mo. 20.30–21.00. – **DX-Prgr. "Around the World":** I: 1st & 4th Sat. 11.30–12.00; II: 1st & 3rd Fri. 20.30–21.00; other Saturdays (I)/Fridays (II) **"Musical Mailbag".**

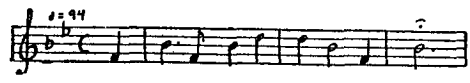
ANN.: Fi.: "Suomen Yleisradio" followed by prgr. ann. (all stations). Fi. and Sw.: "Suomen Yleisradio, Finlands Rundradio" (Helsinki, Turku, Vaasa and Pietarsaari). English: "Suomen Yleisradio – Finlands Rundradio – This is the Shortwave Section of the Finnish Broadcasting Company in Helsinki, the capital of Finland".
INT.-SIG.: Every weekday at 08.45: Normal-a.
Lahti and Helsinki: The int.-sig. is based on an old Finnish melody the "Kantele melody".



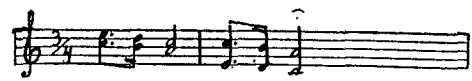
Turku: A fragment of "Ergo plebs finnonica", the hymn of St. Henrik.



Vaasa: The first notes of "Vasa March" by Karl Collan.



Kuopio: The first notes of a well-known song about the beauty of the lake Kallavesi.:



V. by QSL-card.

Programme-schedules to listeners: We distribute only duplicated schedules of the shortwave prgrs., containing the same information as given in the World Radio Handbook. Can be obtained by writing to "DX-Editor" of the Finnish Broadcasting Company.

★ FRANCE ★

L.T.: GMT+1 h. – **Pr.L.:** French. – **Po.:** 42.777.174. – **Rcvrs.:** 10.827.293. – **E.C.:** variable.

RADIODIFFUSION-TELEVISION FRANÇAISE (Go.)
Central Service:
ADDR.: 107, rue de Grenelle, Paris 7ème. **Cable:** Radiodif, Paris. **Te.:** INV. 42-60. – **The Regional Services:** 32–34, rue Ulysse Gayon, Bordeaux – 36, Bd, de la Liberté, Lille – 6 Bd Victor Hugo, Limoges – 20 Quai Gailleton, Lyon – 2, allée Ray Grassi (Parc Chanot), Marseille – 6, avenue Hippolyte Maringer, Nancy – 9, avenue Janvier, Rennes – 2, avenue de la Marseillaise, Strasbourg – 78, allées Jean Jaurès, Toulouse.

L.P.: Dir. Gen.: M. Raymond Janot. Deputy Dir. Gen.: M. Raoul Ergmann. Deputy Dir. Gen., Dir. Tec.: M. Marien Leschi. Chef des Services de la Direction Générale: M. Charles Bonami. Chef du Service de l'Inspection Générale: M. Maurice Lenoble. Directeur de l'Administration Générale: M. Pierre Mauget. Directeur des Relation Internationales: M. Jean D'Arcy. Adjoint et Directeur des Echanges Internat.: M. Michel Robida. Directeur de l'Information: M. René Thibault. Directeur des Services Artistiques (radiodiffusion sonore): M. Paul Gilson. Directeur des Programmes de Télévision: M. Albert Ollivier. Chef du Service de l'Exploitation: M. Claude Mercier. Directeur du Programme Paris-Inter (France I): Mme Agathe Mella. Directeur du Programme Régional (France II): M. Jean-Vincent Brechignac. Directeur du Programme National (France III): M. Henry Barraud. Directeur du Programme Haute-Fidélité (France IV): M. Jean Tardieu.
The Regional Services (Regional Directors): Bordeaux: M. Merlet. **Lille:** M. Lafond. **Limoges:** M. Zamponi. **Lyon:** M. Wadin. **Marseille:** M. Besse. **Nancy:** M. Villate. **Rennes:** M. Favennec. **Strasbourg:** M. Caze. **Toulouse:** M. Faget.

CENTRES ÉMETTEURS CFTH RADIODIFFUSION ET TÉLÉVISION

FRENCH NETWORK OF CFTH BROADCAST TRANSMITTERS

ÉMETTEURS A ONDES MOYENNES

Noms des Stations Names of stations	Puissance installée (kW) Power installed by CFTH	Type (V: install. Vapodyne)	Noms des Stations Names of stations	Puissance installée (kW) Power installed by CFTH	Type (V: install. Vapodyne)
Bordeaux-Néac II.....	20	1392	Marseille-Réaltort II ..	20	1392
Brest-Quimerc'h I.....	25/30	1392 (V)	Montpellier-La Blanq. I	10	1308
Brest-Quimerc'h II....	25/30	1392 (V)	Nancy-Nomény I.....	100 × 2	755 (V)
Clermont-Ennezat.....	20 × 2	1392	Nancy-Nomény II....	20	1392
Grenoble-Ville I.....	20	1930 (V)	Nantes-Montbert I....	10	1308
Lille-Camphin II.....	20	1392	Nice-La Brague II....	25/30	1392 (V)
Limoges-Nieul I.....	120	1395	Nice-La Brague III....	20	1392
Limoges-Nieul II.....	20	1392	Paris-Villebon II.....	100	755 (V)
Louvetot.....	20	1392	Paris-Romainville		
Lyon-Tramoyes I.....	120	1395	+ Club d'essais	10	1308
Lyon-Tramoyes II....	20	1390 (V)	Strasbourg-Sélestat I ..	100 × 2	755 (V)
Marseille-Réaltort I...	135	721 (V)	Strasbourg-Sélestat II..	100	755 (V)

N.B. – Seuls ont été meniionnés les émetteurs dont la puissance est supérieure à 5 kW. Il convient en effet de considérer que les postes secondaires ou régionaux à puissance réduite sont fréquemment déplacés par l'Administration de la RTF et que leur emplacement ne peut être utilement localisé. Rentrent dans cette catégorie les principaux centres CFTH suivants:

— Brest Quimerc'h — Grenoble-Ville I — Nantes-Montbert I — Poitiers — Strasbourg-Sélestat III
— Caen — Lille-Camphin I — Perpignan — Saint-Brieuc — Toulon etc.

ÉMETTEUR A ONDES LONGUES ★ ÉMETTEURS A ONDES COURTES

Centre d'Issoudum....	100 kW × 8	TH R 875 (V)	Centres d'Allouis et d'Issoudun.....	600 kW	6 chaînes HF 4 chaînes BF

ÉMETTEURS A MODULATION DE FRÉQUENCE ET ANTENNES F. M.

Noms des Stations Names of stations	Emetteurs Transmitters	Antennes Aerials	Noms des Stations Names of stations	Emetteurs Transmitters	Antennes Aerials
Amiens (Bouvigny).....	2	1	Marseille (Grande Étoile).....	1	1
Bourges (Neuvy-les-2-Clochers)...	–	1	Mulhouse.....	–	1
Caen (Mont-Piçon).....	3	1	Nancy (Vandœuvre).....	–	1
Côte d'Azur (Pic de l'Ours).....	–	1	Paris (Tour Eiffel).....	4	1
Dijon (Nuits-Saint-Georges).....	–	1	Pic du Midi (2.870 m).....	–	1
Lorraine (Luttange).....	2	1	Reims (Hautvillers).....	–	1
Lyon (Mont-Pilat).....	1	1			

THOMSON CFTH HOUSTON

STATIONS C.F.T.H. DE TÉLÉVISION EN FRANCE ET A L'ÉTRANGER (Names of stations)	Emetteur: 1 (Transmitter) Antenne: 2 (Aerial) Studio: 3	Noms des Stations Names of stations	Emetteur: 1 (Transmitter) Antenne: 2 (Aerial) Studio: 3
Amiens (Bouvigny)	1 2	Marseille (Grande Étoile)	3
Angers	1 2	Moscou (Russie)	3
Alger (Bd Brû)	1 2 3	Nice (Mont-Alban)	1 2
Besançon (Fort de Bréville)	1	Oran (Algérie)	3
Beyrouth (Libanon)	3	Pic du Midi (2.870 m)	1 2
Brest (Quimerc'h)	1 2	Paris (Buttes Chaumont - Cognacq-Jay)	3 3
Épinal	1 2	Puy-de-Dome (Sommet du)	1 2
Gex	1	Rennes (Saint-Pern)	1 2
Grenoble (Croix de Chamrousse)	1 2	Reims (Hautvillers)	1 2
Le Havre (près Honfleur)	2	Rouen (Grand Couronne)	1 2
Le Mans (Mayet)	1 2	Saint-Étienne (Croix de Cuizay)	1 2
Lille	3	Strasbourg (Place de Bordeaux)	3
Longwy	1 2	Toulon (Cap Sicié)	1
		Turin (Italie)	3

ÉMETTEURS C.F.T.H. DE RADIODIFFUSION "COMMUNAUTÉ" ET "ÉTRANGER" (Names of stations)	Ondes Waves	Puissance installée par CFTH (kW) Power installed by CFTH (kW)	Type CFTH (V: Installation Vapodyne)
Abidjan (Rep. de la Côte d'Ivoire)	courtes (sw)	25/30	TH.R. 835 (V)
Abidjan (Rep. de la Côte d'Ivoire)	courtes (sw)	100	TH.R. 875 (V)
A.C.F.L. - New York (USA)	courtes (sw)	50×4	TH.R. 775 (V)
Alger III (Algérie)	courtes (sw)	10×2	TH.R. 1308
Alger IV (Algerie)	courtes (sw)	50×4	TH.R. 775 (V)
Andorradio (Andorra)	moyennes (mw)	100	TH.R. 755 (V)
Barcelone (Espagne)	moyennes (mw)	25×2	TH.R. 1392
Brazzaville (Rép. du Congo)	courtes (sw)	50×2	TH.R. 775 (V)
Constantine I (Algérie)	moyennes (mw)	25/30	TH.R. 1392 (V)
Constantine II (Algérie)	moyennes (mw)	25/30	TH.R. 1392 (V)
Constantine (Algerie)	moyennes (mw)	300	TH.R. 956 (V)
Casablanca (Maroc)	Mod.freq. (FM)	250 W	TH.R. 914
Dakar-Rufisque (AOF)	courtes (sw)	25/30	TH.R. 835 (V)
Dakar-Rufisque (AOF)	courtes (sw)	25/30	TH.R. 1308
Felsberg "Europe No 1" (Allemagne)	longues (lw)	400	TH.R. 855 (V)
Heusweiller (Allemagne)	moyennes (mw)	100	TH.R. 755 (V)
Koper (Yougoslavie)	moyennes (mw)	6	TH.R. 817
Léopoldville (Rep. du Congo)	courtes (sw)	50	TH.R. 775 (V)
Léopoldville (Rep. du Congo)	courtes (sw)	100	TH.R. 875 (V)
Ljubljana (Yougoslavie)	moyennes (mw)	135	TH.R. 721 (V)
Ljubljana (Yougoslavie)	moyennes (mw)	10	TH.R. 1308
Meknès-Sebaa-Aïoun (Maroc)	moyennes (mw)	140×2	TH.R. 721 (V)
Meknès-Sebaa-Aïoun (Maroc)	moyennes (mw)	25/30×3	TH.R. 1392
Meknès-Sebaa-Aïoun (Maroc)	moyennes (mw)	10	TH.R. 1308
Meknés-Sebaa-Aïoun (Maroc)	courtes (sw)	50	TH.R. 775 (V)
Monte-Carlo (Monaco)	moyennes (mw)	200	TH.R. 856 (V)
Monte-Carlo (Monaco)	moyennes (mw)	200	TH.R. 1395 (V)
Monte-Carlo (Monaco)	courtes (sw)	30×2	TH.R. 1038
Monte-Carlo (Monaco)	courtes (sw)	100	TH.R. 875 (V)
Motala (Suède)	longues (lw)	600	TH.R. 955 (V)
Oran I et II (Algérie)	moyennes (mw)	20×2	TH.R. 1392
Oran III et IV (Algérie)	moyennes (mw)	20×2	TH.R. 1392
Oran (Algerie)	moyennes (mw)	300	TH.R. 956 (V)
Ousumbura (Rouenda Urundi)	courtes (sw)	50	TH.R. 775 (V)
Pristina (Yougoslavie)	moyennes (mw)	25	TH.R. 1392
Saigon I (Indochine)	courtes (sw)	25×2	TH.R. 1308
Saigon II (Indochine)	courtes (sw)	5	TH.R. 818
Saigon III (Indochine)	courtes (sw)	50	TH.R. 775 (V)
Saïgon IV (Vietnam)	moyennes (mw)	50	TH.R. 776 (V)
Sarajevo (Yougoslavie)	moyennes (mw)	25	TH.R. 1392
Sarajevo (Yougoslavie)	moyennes (mw)	100	TH.R. 755 (V)
Skoplje (Yougoslavie)	moyennes (mw)	25	TH.R. 1392
Tananarive (Madagascar)	courtes (sw)	5	TH.R. 818
Tel-Aviv (Israël)	moyennes (mw)	100×4	TH.R. 755 (V)
Tel-Aviv (Israël)	courtes (sw)	100	TH.R. 875 (V)
Titograd (Yougoslavie)	moyennes (mw)	25	TH.R. 1392
Tunis (Tunisie)	moyennes (mw)	25	TH.R. 1392
Tunis (Tunisie)	moyennes (mw)	300×2	TH.R. 956 (V)
Zagreb (Yougoslavie)	moyennes (mw)	135	TH.R. 721 (V)

HOME SERVICE

PARIS INTER (France I):
Long & Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Allouis	164	1829	250/500*	Nantes II	1493	201	0.05
Paris III	584	514	1	Strasbourg III	1493	201	0.05
Grenoble II	1484	202	0.05	Toulouse III	1493	201	1
Montpellier II	1484	202	0.2				
Perpignan	1484	202	1				
Brest III	1493	201	0.05	Nice I	1554	193	60
Marseille III	1493	201	1	Nimes I	1594	188	1
				Toulon	1594	188	0.05

*) 500 kW: W. 18.15–23.00, Sun. 05.15–23.00.
FM: Lille II 88.7 mc/s 12 kW – Paris (Grenelle) 96.1 mc/s 5 kW – Metz II 93.3 mc/s 12 kW – Mulhouse II 96.3 mc/s 12 kW.
D.PRGR.: On 164 kc/s: 24 h. exc. Fri. 03.18–05.15. Other tr. D. 05.13–23.00. **On 6175 kc/s** at 05.15–23.00.
N.: W.: 05.15, 06.15, 07.15, 08.15, 09.15, 10.15, 11.30, 13.15, 14.15, 15.15, 16.15, 17.15, 18.15, 22.15. Sun.: 05.15, 06.15, 07.15, 08.15, 11.30, 13.15, 14.15, 15.15, 16.15, 18.15, 22.15. D.: 00.15, 01.15, 02.15, 03.15, 04.15. – **"Inter France Europe":** Mo. 21.20, 22.18. – **"Route de Nuit":** D. 00.00–05.13 (exc. Fri. 03.18–05.15).

PRGR. REGIONAL (France II):

Medium Waves:	kc/s	m	kW		kc/s	m	kW
Lyon I	602	498	100	Strasbourg I	1160	259	150
Rennes I	674	445	150	Bordeaux I	1205	249	100
Marseille I	710	422	150	Lille I	1376	218	150
Limoges I	791	379	100	Brest II	1403	214	20
Nancy I	836	359	150	Montpell. I	1403	214	10
Paris I (Villebon)	863	348	150	Nice II	1403	214	20
Toulouse I	944	318	100	Rouen	1403	214	20
				Bayonne	1493	201	1

FM: Caen II 91.5 mc/s 12 kW.
D.PRGR.: D. 05.28–21.58 (Sun. 22.00). **N.:** 05.30, 07.00, 12.00, 19.00, 21.10 (W), 21.58 (Sun.). – **"Disque des Auditeurs":** Sun. 06.20. – **"Sport and Music":** Sun. 13.50–17.00. – **Kabyle:** W. 21.20-21.58.

PRGR.: NATIONAL (France III):

Medium Waves:	kc/s	m	kW		kc/s	m	kW
Bayonne II	539	557	0.05				
Bordeaux II	1070	280	20	Clerm.-Ferr.	1349	222	20
Marseille II	1070	280	20	Grenoble I	1349	222	20
Paris II	1070	280	100	Limoges II	1349	222	20
Brest I	1241	242	20	Nantes I	1349	222	10
Lille II	1241	242	20	Toulouse II	1349	222	20
Lyon II	1241	242	20	Annemasse	1484	202	1
Nancy II	1241	242	20	Caen	1484	202	0.05
Nice III	1241	242	20	Dijon	1484	202	1
Pau	1241	242	20	Poitiers	1484	202	1
Rennes II	1241	242	24	Saint-Brieuc	1484	202	0.05
Strasbourg II	1277	235	100	Besançon	1493	201	0.18

FM: Caen III 87.8 mc/s 12 kW – Bourges II 89.4 mc/s 12 kW
Dijon II 88.0 mc/s 2 kW – Paris II (Tour Eiffel) 97.6 mc/s 12 kW
Toulouse II 87.9 mc/s 2 kW.
D.PRGR.: 05.00–23.00 (Wed. 08.13–10.55 break in tr's exc. for Paris II 1070 kc/s).
N.: 08.00, 11.00, 22.53. – **"Ici New York":** Mo.–Fri. 18.06. – The High Mass Sun. 09.00–10.00 is relayed **on 7160 kc/s.**
D. 05.00–05.58 **Arabic.**

FM PRGR. (France IV)

	mc/s	kW		mc/s	kW
Cannes I	88.7	2	Strasbourg	95.0	2
Metz I	89.7	12	Marseille	95.4	12
Paris I	90.35	12	Caen I	95.6	12
Toulouse I	91.5	2	Dijon I	95.8	2
Mulhouse I	92.1	12	Nancy	96.9	0.25
Lille I	92.2	12	Toulouse	90.3	0.25
Lyon	92.7	12	Bordeaux	98.1	2
Bourges I	93.0	12	Reims	99.2	12

D.PRGR.: D. 08.30–23.00.

SPECIAL BROADCASTS:
Paris IV (Romainville) 962 kc/s 312.0 m 5 kW.
D.PRGR.: **"Culture Française":** Sun. 08.00–18.00, Sat. 13.00–17.00.
Arabic/Kabyle: Sun. 06.45–08.00 (06.45–07.00 from Paris, 07.00–08.00 relay R. Alger), D. 12.00–13.00 (also on 6145 kc/s).

ANNOUNCEMENTS:
For "Paris Inter – France I", "Prgr. Regional – France II", "Prgr. National – France III" and "FM – France IV" at opening and close down "La Marseillaise" followed by "Ici Paris, Radiodiffusion-Télévision-Française". – **Bordeaux:** "Ici Bordeaux-Aquitaine, Radiodiffusion-Télévision Française". – **Lille:** The first movement of the melody "Petit Quinquin" followed by "Ici Lille, Radiodiffusion-Télévision Française". – **Limoges:** Some movements of a folklore dance followed by: "Ici Limoges, Radiodiffusion-Télévision Française" – **Lyon:** Harmonizing by R. Corniot of the melody "Allons aux Brotteaux" followed by "Ici Lyon, Radiodiffusion-Télévision Française". – **Marseille:** "Ici Marseille Provence, Radiodiffusion-Télévision Française". – **Nancy:** Some movements from "A la Volette" followed by "Ici Radio Lorraine, Champagne, Radiodiffusion-Télévision Française". – **Rennes:** Some movements from "Jibdi" a popular dance, followed by: "Ici Radio Bretagne, studio de Rennes, Radiodiffusion-Télévision Française". – **Strasbourg:** The first movements of "Que notre Alsace est belle" followed by "Ici Strasbourg, Radiodiffusion-Télévision Française". – **Toulouse:** The first movements of "Montagnards" followed by "Ici Toulouse, Radiodiffusion-Télévision Française". – **PUB.:** Weekly: Prgr.schedule.

FOREIGN SERVICE

Short Wave Centre Allouis and Issoudun: 13 tr's each 100 kw, 1 tr. 10 kw

EUROPEAN SERVICE

Arabic	kc/s
10.30–10.58	962/6145
Bulgarian	
19.00–19.45	9755/15245
Czech/Slovak	
19.00–20.00	5955
English	
07.45–08.00*	7160
14.00–15.00**	7160
22.00–23.00***	1376
French	
17.30–17.50a)	6145, 7160
20.00–21.00	5955, 7160, 9560
German	
18.00–19.00 (W)	1277/6145
18.40–19.30 (Sun.)	1277
Greek	
12.15–12.45	11845, 15160
Hungarian	
18.15–19.00	5955, 9570
Polish	
08.00–08.20 (W)	1376
10.00–11.00b)	7160
17.00–17.15*	7160, 9570
17.30–18.00	1376
17.45–18.00 (Sun.)	1376
19.00–20.00	6145, 7160, 9570
Portuguese	
07.30–07.45*	7160
19.00–19.30	7280, 9560
19.30–19.45*	7280, 9560
Rumanian	
18.15–19.00	9585/11845
Russian	
16.00–17.00	7280, 11885, 15160
Serbo-Croatian	
18.00–19.00	7160, 9755
Spanish	
07.15–07.30*	7160
21.00–21.45	5955, 7160
21.45–22.00*	5955, 7160
22.00–22.45 (W)	944
Yiddish	
21.15–21.35 (W)	9560/11845

*) French lessons (W). **) Sat. and Sun. only. ***) exc. Sat. and Sun.
a) Rel. prgr. Sun. only. b) Mass, Sun. only.

OVERSEAS SERVICE
I = French Polynesia, New Caledonia, New Hebrides; II = Africa; III = Antarctica; IV = Antilles, Guiana, St. Pierre et Miquelon; V = Far East; VI = Indian Ocean; VII = Middle East; VIII = Canada; IX = Latin America.
All prgr's in French exc. where indicated.

Time	Area	kc/s	Time	Area	kc/s
06.00–06.45	I	7240, 9620, 11845	16.30–18.00	VII	11845, 15245, 17850
07.00–08.00	II	15160, 17765, 21580	17.30–17.45[3])	VIII	15350, 21580
08.00–08.30[1])	III	9620	20.00–20.57	II	9620/9755 11845
10.30–11.00	IV	17765/21580	23.00–23.30	V	9560, 9680
12.15–12.45	II	17765, 21580	23.15–02.15[4])	IX	9585/11845
13.00–15.00[2])	V	15245/17765/21620	23.30–01.00	IV	9560, 9680
15.15–16.15	VI	17765, 21620			

[1]) Mo. only; [2]) English 13.00–13.15, French 13.15–14.40, Vietnamese 14.40–15.00; [3]) Mo.-Thurs., Fri. 17.30–17.55; 4) Portuguese 23.15–24.00 (French lesson 23.45), French 00.00–00.30, Spanish 00.30–02.15 (French lesson 00.30).

Arabic and Kabyle
a) to Middle East. b) to No. Africa.

Times	kc/s	Times	kc/s
04.00–05.00[1]a*	1070, 1277, 6175 7280/9560	16.00–19.00[1]a	9560, 15130
		16.00–18.00[1]a	11920
05.00–05.45[1]a	9560, 15130	18.00–19.00[1]a	15295
06.00–08.00[1]b	7280, 9585 11920, 15130	19.00–20.00[2]b	9585/7170**
		20.00–21.00[1]b	7170**, 7280
08.00–09.00[2]b	7280, 9585		9585, 11920
*09.00–11.00[2]b	11920, 15130	21.00–22.00[1]b	7170**, 7280,
11.00–13.00[1]a + b	7280, 11920, 15130	22.00–23.00[1]b	9585, 11920 710, 890**,
12.00–13.00[1]a + b	6145		1304**, 7170**,
*13.00–16.00[1]b	6145, 7280, 9585 11920, 15130		7280, 9585, 11920,

[1] Arabic. [2] Kabyle. * relayed by R. Alger daily exc. Sun. on 890, 1304, 9685 kc/s. ** R. Alger.

RELAYS OF FRENCH HOME SERVICES
d) to Europe & Africa; e) Africa; f) Europe; g) Canada; h) Africa, Middle East.

Times	Areas	kc/s	Programme
05.14–23.00	d	6175	France I
07.00–07.30	e	11845, 21620	France II*
09.00–10.00 (Sun.)	f	7160	France III**
13.50–17.00 (Sun.)	e	21580	France II***
18.15–18.45	g	15350	France I****
19.00–19.25	h	15130, 11845	France II*

*) News (Journal Parlé). **) Catholic Mass. ***) Sport & Music. ****) Paris vous parle.

ANN.: "Allo... (name of area) Paris vous parle". – V. by QSL-card. – F.PL.: FM stations to be put into service during 1960/61: Carcasonne I, Carcasonne II, Rennes I, Clermont-Fd I, Niort I, Besancon I, Limoges I, Gex I, Nantes I, Lyon II, Reims II, Paris III, Cannes II.

The information above concerns France Metropolitan. For the other territories of République Française outside Europe: Algeria, Sahara (Saoura et Oasis), Martinique, Guadeloupe, Guiana, Reunion, Somali, Comores, New-Caledonia, Tahiti, Saint-Pierre et Miquelon, the broadc.service is supported by R.T.F. which also operates Radio Brazzaville (Congo). See evt. details resp. continents.

S.O.R.A.F.O.M. (Go. – an organization the purpose of which is improvement and development of broadcasting in the "Etats membres de la Communauté", Cameroun and Togo).
ADDR.: 46, rue d'Amsterdam, Paris 9è. – Cable: SORAFOM. Te.: PIGalle 99-39. – L.P.: Pres. of the Board of Adm.: M. Janot (Dir. Gen. of "Radiodiffusion-Télévision Française"). Dir. Gen.: M. R. Pontillon. Secr. Gen.: M. J. Lansier.
STATIONS: R. Sénégal (Dakar), R. Mauritania (Saint Louis), R. Mali (Bamako), R. Niger (Niamey), R. Cote d'Ivoire (Abidjan), R. Dahomey (Cotonou), Radiodiff. de la Republique du Togo (Lomé), R. Haute Volta (Ouagadougou), R. Gabon (Libreville), R. Tchad (Fort Lamy), R. Bangui (Bangui), Radiodiffusion du Cameroun (Yaoundé, Douala, Garoua), R. Madagascar (Tananarive), R. Congo (Brazzaville).

★ GERMANY ★

GERMAN FEDERAL REPUBLIC

L.T.: GMT+1 h. – Pr.L.: German. – Po.: 55.362.400. – Rcvrs.: 15.730.292. – E.C.: 220 V., A.C., 50 c/s.
F 1: By license payment and adv. exc NDR and WDR.

DEUTSCHE WELLE

Kurzwellendienst der Arbeitsgemeinschaft der öffentlich-rechtlichen Rundfunkanstalten der Bundesrepublik Deutschland.
ADDR.: Deutsche Welle, Postfach 344, Köln. – Te.: 2841. – L.P.: Intendant: Hanns Hartmann, Chief Editor: Dr. Hans Otto Wesemann. DX-Editor: Horst A. C. Krieger.
OVERSEAS SERVICE: Jülich-DMQ-5 tr. 100 kW, 1 tr. 20 kW.
Abbreviations: I=Far East; II=Japan; III=Middle East; IV=Africa; V=We. Africa; VI=So. America; VII=No. America East; VIII=C. America; IX=No. America West.

FIRST PROGRAMME:

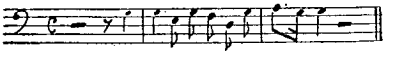
H. of tr.	Area	kc/s	N. in G.	N. in E., F., P., Sp.
06.45–09.45	I	11795, 15275, 21650	06.45, 09.30	08.45 E+F
09.45–12.45	II	15295, 17815	09.45, 12.30	11.45 E+F
12.45–15.45	III	17875, 21700	12.45, 15.30	14.45 E+F
16.00–19.00	III	11795, 15405	16.00, 18.45	18.00 E+F
17.15–20.15	IV	11870, 15275	17.15, 20.00	19.15 E+F
19.15–22.15	V	9605, 11925	19.15, 22.00	21.15 E+F
22.30–01.30	VI	9735, 11945	22.30, 01.15	00.30 Sp+P
00.00–03.00	VII	9640, 11795	00.00, 02.45	02.00 E
01.45–04.45	VIII	5980, 9735	01.45, 04.30	03.45 E+Sp
03.00–06.00	IX	9640, 11795	03.00, 05.45	05.00 E

Comm. (German): after the 2nd German news. – "Wie wir leben": D. – "Unter uns gesagt": Wed. – Folklore Music: Tues., Sat. – L.L.: after the foreign language news. – DX-Programme (German and English): every 2nd Mo. of the month.

SECOND PROGRAMME:

H. of tr.	Area	kc/s	L.L.	N.
08.00–09.30	II	17815, 21735	09.00	08.25 E+F
10.00–11.30	I	15405, 17815, 21650	11.00	10.25 E+F
13.45–15.15	III	15275, 17815	14.45	14.10 E+F
15.30–17.00	IV	15275, 17815	16.30	15.55 E+F
17.30–19.00	V	11905, 15285	17.55	18.30 E+F
20.30–22.00	VI	11795, 15310	21.30	20.55 P+Sp
22.15–23.45	VII	9605, 11795	23.15	22.40 E
00.00–01.30	VIII	5980, 9605	00.25	01.00 E+Sp
05.00–06.30	IX	9735, 11945	06.00	05.25 E

Prgr's consist of music, foreign language news and language course.
ANN.: G.: "Hier ist die Deutsche Welle" – E.: "This is the Voice of Germany" – F.: "Ici la Voix de l'Allemagne" – Sp.: "Habla la Voz de Alemania" – P.: "Esta é a Voz da Alemanha".
INT.-SIG.: Motif from "Fidelio" by Beethoven: "Es sucht der Bruder seine Brüder" played on Celeste.



V. by QSL-card. – PUB.: Every fourth week and quarter y. Prgr. sched. free on request.

ARABIC SERVICE:
11.45–12.30 on 15405, 17845, 21650 kc/s
19.15–20.00 on 9735, 11905 kc/s.

DER BAYERISCHE RUNDFUNK

(Anstalt des öffentlichen Rechts). AD.: W. 05.30–06.00, 08.55–09.35, Mo.–Fri. also 12.45–13.00. Tues., Wed., Thurs. 18.40–18.45. ADDR.: München. 2, Rundfunkplatz 1. – Cable: "Bayernfunk München". Te.: 558301. – L.P.: Intendant: Christian Wallenreiter. Prgr.-Coordinator: W. von Cube. Adm.: H. Spies. Dir. Tec.: Dr. F. Daser.

HOME SERVICE:
FIRST PRGR. on all frequencies: W. 04.30(Sat., Sun. 05.00)–24.00 (exc. 08.55–09.35 m.w. only). *) night only. [1]) Kempten, Passau, Würzburg. [2]) Augsburg, Landshut. [3]) Coburg, Regensburg.

M.waves:	kc/s	m	kW		kc/s	m	kW	
Nürnberg II	520	577	5.0	day	Nürnberg I	1602	187	20 day
Bayreuth	520	577	0.2*)					40 night
3 l.power[1])	520	577	0.2*)		Hof	1602	187	1
München	800	375	100		Land./Isar	1602	187	20*)
2 l.power[2])	1484	202	1.0*)		Kirchheim	1602	187	20*)
					2 l.power[3])	1602	187	1 *)

Short Wave: München-Ismaning 6085 kc/s 49.30 m 10 kW.

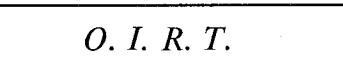
FM:	ch.	mc/s	kW		ch.	mc/s	kW
Lindau	4	88.3	0.5	Pfaffenberg b.	24	94.2	18
Burgst./H.Bogen	6	88.8	18	Aschaffenburg			
Traunst./Hochb.	7	89.05	3	Bamberg I	25	94.45	12
Berchtesgaden	9	89.7	0.5	Ochsenkopf/	30	96.05	60
Hühn.b./b.Hb.	37	98.1	20	Fichtelgeb. I			
Bad Reichenh.	11	90.3	0.5	München I	30	95.95	0.5
Wendelstein I	22	93.65	100	Kreuzb./Rhön I	36	97.75	3
				Dillberg I	39	98.75	18

N.: 05.00(W), 06.00(D), 07.00(D), 08.00(W), 12.00(D), 16.00(W), 18.45(D), 21.00(D), 23.00(D). – "Echo der Zeit": W. 17.30. – Night Prgr.: 00.05–04.20 on 800 kc/s (München) Sun., Tues., Thurs., Sat; on 1602 kc/s (Nürnberg) Mo., Wed., Fri. – Rel.: Sun.: 06.45, 09.00, 09.30; Tues.: 17.15, 21.10; Wed. 09.35; Fri. 17.00. – Folklore Music: Sun. 08.35.

SECOND PRGR.: Mo.–Fri.: 04.30–08.50, 09.30–24.00. Sat., Sun.: 05.00–24.00. – Relay First Prgr.: 04.30–05.05, 06.00–07.15; Mo.–Fri. 11.05–12.00; Wed., Fri., Sat. 23.00–24.00; Sun.: 05.00–06.05, 23.00–24.00.

	ch.	mc/s	kW		ch.	mc/s	kW
Würzburg/ Frankenwarte	2	87.6	3	Hohe Linie	13	90.9	12
				Hohenpeissenb.	14	91.25	9
Tegernseer Tal	2	87.6	0.1	Brotjacklriegel	15	91.5	60
Landshut	3	87.9	0.1	München II	4	88.2	0.5
Gelbelsee/ Eichst. Alb.	5	88.5	12	Ochsenkopf/ Fichtelgeb. II	16	91.775	60
Kreuzb./Rhön II	8	89.35	60	Kreuzeck b.	20	93.0	0.5
Coburg	10	90.0	3	Garm.Partenk.			
Wendelstein II	10	90.05	100	Passau/Kühberg	20	93.0	0.5
Grünten/Allgäu	12	90.5	60	Dillberg II	23	93.9	18
Bamb./Geisb.II	13	90.85	12	Büttelb./Fr.ankh.	32	96.6	15

Rel.: Sun.: 07.00, 07.30. – Folklore Music: Sun. 11.10, Tues. 13.00, Fri. 18.05. – L.L.: English: Mo., Fri. 19.45–20.00.
ANN.: "Hier ist der Bayerische Rundfunk". E.: "This is der Bayerische Rundfunk". – V. by QSL-card or letter. Prgr.sched. on request.
INT.-SIG.:



O. I. R. T.

Review of the International Radio and Television Organization (O. I. R. T.):

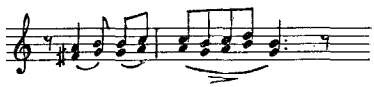
RADIO & TELEVISION

published in English, French, Russian, Chinese and German brings every 2 months valuable information on the world of Broadcasting and Television.

Subscription: The International Radio and Television Organization (O. I. R. T.), Liebknechtova 15, Praha 5, Czechoslovakia.

RADIO BREMEN (Anstalt des öffentlichen Rechts). **AD.:** Mo.–Fri. 07.10–07.15, 12.10–13.00, 17.50–18.00. Sat. 17.40–17.50.
ADDR.: Heinrich-Hertz-str. 13, Bremen. **Cable:** Radio. **Te.:** 444041. – **L.P.:** Intendant: H. Kerneck. Dir. Prgr.: H. Friedrich. Dir. Tec.: A. Olshausen. Abteilungsleiter TV: H. Heinrich Isenbart.

HOME SERVICE:
First Prgr.: W. 05.00–23.05. Sun. 06.00–23.05.
Bremen 1358 kc/s 221 m 20 kW – Bremerhaven 1079 kc/s 278 m 2 kW.
FM: Bremen I ch. 33 96.9 mc/s 18 kW, Bremerhaven I ch. 30 95.9 mc/s 0.5 kW.
Second Prgr., FM: W. 19.00–23.05. Sat. 15.00–23.05. Sun. 09.00–23.05 exc. 12.00–15.00.
Bremen II ch. 8 89.4 mc/s 18 kW – Bremerhaven II ch. 16 91.8 mc/s 0.5 kW.
N., Wrp., Commentary: (1st & 2nd prgr.): 05.05 (exc. Sun.), 06.00 (exc. Sun.), 07.00, 12.00, 16.00 (exc. Sat., Sun.), 18.30, 20.30 (exc. Sun.), 21.00, 23.00 – **"Die Zeit im Funk":** W. 18.00–18.30 – **Folklore Music:** Mo. 20.00 – **Rel.** Sun. 06.00, 09.00. Sat. 17.00 – **L.L.:** English: Tues. 14.45; Wed. 08.45, 14.30; Thurs. 08.30, 14.40; Fri. 08.40.
ANN.: "*Hier ist Radio Bremen mit dem ersten, bzw. zweiten Programm*". – **INT.-SIG.:**



V. by QSL-card. **Re.** in English, French or German.
F.PL.: Sw. on 6190 kc/s. – **PUB.:** Prgr.sched. free on request to Pressestelle, R. Bremen.

HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts).
AD.: W. 07.15–08.00, 10.10–10.30, 12.00–12.50. – **ADDR.:** Frankfurt am Main, Bertamstrasse 8. **Cable:** Hessfunk. **Te.:** 59051. – **L.P.:** Intendant: E. Beckmann. Dir. Adm.: Diplomkaufmann H. Weber. Dir. of the Staff: W. Heckroth. Dir. Tec.: Dr.-Ing.: F. Misère. Justitiar: W. Lehr. Coordination Radio and TV: Dr. H. Wicht. Politic and News: Chief Editor O. Herr. Culture: Dr. J. Petersen. Education: Dr. G. Kadelbach Music: Dr. H. W. Kulenkampff. Entertainment: W. Jaspert

HOME SERVICE

PRGR. I:
Frankfurt 593 kc/s 505.8 m 100 kW d – Meissner 593 kc/s 505.8 m 20 kW d.
FM: Feldberg 88.53 mc/s 10 kW Biedenkopf 95.37 mc/s 10 kW
Hardberg 93.30 – 0.25 – Würzberg 96.0 – 0.25 –
Meissner 93.30 – 0.25 –

PRGR. II:
FM: Meissner 89.69 mc/s 10 kW Biedenkopf 91.20 mc/s 10 kW
Hardberg 89.70 – 0.25 – Feldberg 92.13 – 10 –
Würzberg 89.74 – 0.25 –

PRGR. I:	PRGR. I+II:	PRGR. II:
Sun. 04.00–04.00.	04.00–06.05, 07.00–07.15, 22.10–23.00.	06.05–07.00, 07.15–22.10.
Mo.+Tues. 04.00–09.10, 10.00–13.20, 14.00–04.00.	04.00–06.05, 07.15–13.30, 15.00–17.15.	06.05–07.15, 13.30–15.00, 17.15–23.00.
Wed. 04.00–08.40, 10.00–13.20, 14.00–04.00.	as Mo.+Tues.	as Mo.+Tues.
Thurs. 04.00–08.30, (10.00), 10.00–13.20, 14.00–04.00.	04.00–06.05, 07.15–13.30, 15.00–17.15.	06.05–07.15, 13.30–15.00, 17.15–23.00.
Fri. 04.00–09.10, 10.00–13.20, 14.00–04.00.	As Prgr. I. Close down 23.00.	As Prgr. I. Close down 23.00.
Sat. 04.00–04.00.	04.00–06.05, 10.00–10.30, 11.30–12.50, 21.35–24.00.	06.05–10.00, 10.30–11.30, 12.50–21.35, (24.00).
N.: 07.00(W), 11.50 (Sun), 18.40, 21.00.	04.00, 05.00, 06.00, 11.50(W), 17.00(W), 23.00.	07.10(W), 13.20(Sun), 20.08.
Wrps.: Before and after N. 11.50(Sun), 18.40, 21.00.	Before and after N. 04.00. Each half h. until 07.00. After N. 11.50, 23.00.	After N.: 07.10(W), 12.20(Sun), 20.08.

Commentary 1' Prgr. only: Mo.–Fri.: 18.54, 21.10. Sat. 21.05, Sun. 18.50. – **Folklore Music:** Prgr. I: Wed. 15.00, Thurs. 10.30 (fortnightly), Sat. 13.35. Prgr. II: Sun. 12.45, Mo. 17.15, Fri. 14.30, Sat. 09.30. – **L.L.:** Prgr. II: English: Tues., Fri. 17.45 (until Feb. 28th). French: Tues., Fri. 17.45 (from March 3rd).
ANN.: "Hier ist der Hessische Rundfunk" or "Hier ist Frankfurt". **INT.-SIG.:** Electronic music. – **V.** by QSL-card. – **PUB.:** Prgr.schedule (half-yearly, yearly and weekly).

NORDDEUTSCHER RUNDFUNK
(Anstalt des öffentlichen Rechts).
FI.: By license payments. – **ADDR.:** Hamburg 13, Rothenbaumchaussee 132/34. **Cable:** Nordfunk. **Te.:** 441931. **Hannover:** Hannover, Rudolf-von-Bennigsen-Ufer 22. **Te.:** 82331. – **Studios: Flensburg:** Friedrich-Ebert-Str. 1. – **Oldenburg:** Oldenburg i.O., Jägerstr. 30. – **Berlin:** Berlin-Grünewald, Hubertusallee 26.
L.P.: Intendant: Dr. W. Hilpert. Prgr. Dir.: Dr. H. Arnold. Finanzdir.: G. Schulz. Technischer Dir.: Dr. H. Rindfleisch. Leiter des Aussenreferats: W. D. Schultz.

HOME SERVICES

FIRST PRGR.: D. 03.55(Sun. 04.58)–00.15(Sat. 01.15). **Night Prgr.** on 971 kc/s (Hamburg), 1586 kc/s (Oldenburg), Hamburg 92.1 mc/s, Harz 96 mc/s. Sun., Mo., Fri. 00.15–03.30. Sat. 01.15–04.30.

	kc/s	m	kW		kc/s	m	kW
Braunschweig	520	577	2	Flensburg	1570	191	10
Norden/Osterloog	701	428	5	Hannover	1586	189	40
Lingen	701	428	5	Kiel	1586	189	5
Göttingen	971	309	5	Oldenburg	1586	189	40
Hamburg	971	309	100	Osnabrück	1586	189	5

FM Stations (relay m.w. prgr. exc. night prgr.).

	ch.	mc/s	kW		ch.	mc/s	kW		ch.	mc/s	kW
Oldenb.	2	87.6	100	Lingen	18	92.4	15	Flensb.	36	97.8	15
Dannen.	9	89.7	15	Bungsb.	29	95.7	0.5	Hannov.	36	97.85	1.25
Norden/O.	9	89.7	15	Hamb.	31	96.3	50	Kiel	40	99.0	1.2
Heide	10	90.0	15	Götting.	32	96.65	1.2	Harz	43	99.9	100

N. Wrp.: D.: 04.00(W), 05.00(W), 06.00, 07.00(W), 07.55(Sun. 08.00), 12.00, 16.00 (exc. Sat.), 18.00, 20.45, 23.00. **Rel.:** Sun. 09.00, W. 05.50.

SECOND PRGR.: W. 05.00–23.05. Sun. 06.58–23.05.
Short Waves: Norden/Osterloog
3970 kc/s 75.57 m 5 kW – 6075 kc/s 49.38 m 20 kW.

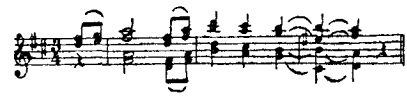
FM:	ch.	mc/s	kW		ch.	mc/s	kW		ch.	mc/s	kW
Lübeck	3	87.9	0.5	Brauns.	6	88.8	0.5	Heide	22	93.6	15
Harz	4	88.2	100	Bungsb.	15	91.5	0.5	Osnabr.	22	93.6	3
Hambg.	5	88.5	50	Flensbg.	20	93.0	15	Hannov.	23	93.9	5
Götting.	6	88.8	2	Osterlg.	21	93.3	15	Kiel	24	94.1	2
Lingen	6	88.8	15	Dannen.	21	93.3	15	Oldenb.	28	95.4	100

N. Wrp.: W.: 06.30, 07.30, 11.00, 17.00 (exc. Sat.), 18.55, 21.30. Sun.: 07.00, 18.55, 21.30.

THIRD PRGR.: D. 19.00–approx. 21.30.

FM:	ch.	mc/s	kW		ch.	mc/s	kW		ch.	mc/s	kW
Flensbg.	5	89.45	15	Oldenb.	14	91.2	100	Harz	30	96.0	100
Kiel	12	90.6	2	Hambg.	17	92.1	50	Dannen.	39	98.7	3
Hannov.	13	90.9	5	Götting.	18	92.4	1				

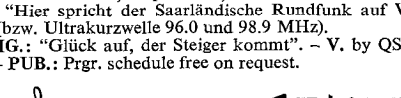
GERMAN LONG WAVE ("Im Auftrage der Westdeutschen Rundfunkanstalten"): Hamburg 151 kc/s 1986 m 50 kW. D. from 15.00–23.00. – **Prgrs.** consist of N., Music, "Deutschland-Echo" (W. 18.00).
ANN.: 1st Prgr.: "Hier ist der Norddeutsche Rundfunk". – **2nd Prgr.:** "Hier ist der Norddeutsche Rundfunk auf Ultrakurzwelle". – **3rd Prgr.:** "Hier ist das Dritte Programm des Norddeutschen Rundfunk".
INT.-SIG.: 1st Prgr.: Motif from the first movement of Johs. Brahms' Symphony no. 2.



2nd Prgr.: "Einen verlegten Nonen-Akkord". – **3rd Prgr.:** The tones "B-A-C-H" in Regerharmonization. – **V.** by QSL-card.
PUB.: "Die Ansage". Weekly. Prgr.sched. weekly.

SAARLÄNDISCHER RUNDFUNK
(Gemeinnutzige Anstalt des öffentlichen Rechts). AD: W. 06.15–07.30, 10.00–11.00, 11.40–12.00, 12.25–12.30. Mo. – Fri. also 17.25–18.05. Sat. 16.30–17.00. – **ADDR.:** Intendanz und Verwaltung, Schloss Halberg, Saarbrücken. – Brebach. **Cable:** Saarl. Rundfunk. **Te.:** 65742. – **L.P.:** Intendant Dr. F. Mai. Dir. Prgr.: D. A. Schum. Dir. Adm.: W. Klein. Tech. Dir.: Dipl. Ing. F. Glasow.

HOME SCE. in German: 1421 kc/s 211.1 m 100 kW.
FM: 96 mc/s 10 kW Schaumberg – 98.9 mc/s 1.5 kW Schwarzenberg.
M.W.Prgr.: W. 04.57–08.30, 10.00–23.05. Sun. 05.30–23.05. – **N., Wrp.:** 05.00 (W), 06.00, 07.00 (Sun.), 07.30 (W), 12.00, 16.00 (W), 18.30, 21.00, 23.00. **Rel.:** Sun. 09.00, W. 06.55, 08.55.
FM Prgr.: Rel. m.w. exc.: W. 17.15 (Sat. 15.00)–22.00. Sun. 07.15–13.00, 16.00–22.00. **N., Wrp.:** 17.30, 21.50.
ANN.: "Hier spricht der Saarländische Rundfunk auf Wellenlänge 211 m (bzw. Ultrakurzwelle 96.0 und 98.9 MHz).
INT.-SIG.: "Glück auf, der Steiger kommt". – **V.** by QSL-card and letter. – **PUB.:** Prgr. schedule free on request.



EUROPE NO. 1. (Comm.)
ADDR.: Europäische Rundfunk und Fernsch AG., Saarbrücken, Dudweilerstrasse 57/59, Saarbrücken. Te.: 2.41.62. **L.P.:** Lucien Gillet, Prof. Dr. Eugen Meyer, Frédéric Billmann. – **PRGR.-ADDR.:** Télécompagnie, 28, Rue François Ier, Paris 8e. Cable: EURADIO. Te.: Balzac 6500. **L.P.:** Pres.: Sylvian Floirat, Gen. Mgr.: Louis Merlin, Asst. to Gen. Mgr.: Maurice Siegel. – **ADVERTISEMENT-ADDR.:** Regie No. 1, 28, Rue François Ier, Paris 8e. **L.P.:** Dir. Lucien Gillet, Wormser, Gen. Mgr.: Frydmann.
D.PRGR.: Felsberg, 182 kc/s 1647 m 400 kW: D. 05.30 (Sun. 06.00)–24.00. – **N.:** Every h. on the h. – **ANN.:** "Ici Europe No. 1 – Hier spricht Europa Nr. 1 – This is Europe No. 1".

SÜDDEUTSCHER RUNDFUNK (Anstalt des öffentlichen Rechts). **AD.:** W. 06.10–07.00, Mo.–Fri. 12.00–13.15, Sat. 12.15–13.15. – **ADDR.:** Neckarstrasse 145, Stuttgart-O. – **Cable:**Rundfunk, Stuttgart. **Te.:** 29 97 01.
Studios: Heidelberg-Mannheim: Heidelberg, Marstallstr. 6. Karlsruhe: Kriegsstr. 168. – **L.P.:** Vorsitzender des Rundfunksrats: Dr. Valentin Gaa, Landrat (Mdl.), Schwetzingen. Vorsitzender des Verwaltungsrat: Dr. rer. nat. h. c. Dr. ing. e. h. Alex Möller, Generaldir. (Mdl.), Karlsruhe. Intendant: Dr. Hans Bausch. Programmdir.: Dr. Peter Kehm. Verwaltungsdir.: Friedrich Müller. Technischer Dir.: Dr. Helmut Rupp. Dir. TV: Horst Jaedicke.

HOME SERVICE

MEDIUM WAVE PRGR. (relayed by S.W. and FM): Mo., Fri. 03.56–03.30 – Tues., Thurs. 03.56–23.15 – Wed. 03.56–03.55 – Sat. 03.56–24.00 – Sun. 04.56–23.10 – (Interval: Mo.-Fri. 13.25–14.00).

Stations	kc/s	m	kW		kc/s	m	kW
Mühlacker	575	522	100	Schwäbisch-Hall	1484	202	0.2
Heidelberg-Dossh.	998	301	10	Eberbach	1484	202	0.2
Buchen-Walldürn	998	301	0.2	Mosbach	1484	202	0.2
Ulm-Jungingen	1169	257	3	Bopfingen	1484	202	0.2
Heilbronn-Obereisesh.	1169	257	10	Ellwangen	1484	202	0.2
Bad Mergenth.	1412	212	3	Adelsheim	1484	202	0.2
Wertheim	1484	202	0.2	Gerabronn	1484	202	0.2
Heidenheim	1484	202	0.2	Giengen	1484	202	0.2
Crailsheim	1484	202	0.2	Kirchberg	1484	202	0.2
				Kühlsheim	1484	202	0.2
				Neresheim	1484	202	0.2

Short Wave: Mühlacker: 6030 kc/s 49.75 m 20 kW.

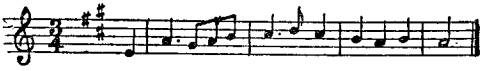
FM:	ch.	mc/s	kW		ch.	mc/s	kW
Stuttgart I	25	94.5	100	Waldenburg I	10	90.0	100
Aalen I	19	92.7	50	Geislingen I	14	91.2	0.5
Heidelberg I	15	91.5	80	Ulm I	3	87.9	0.5

News: W.: 04.30, 05.00, 06.00, 07.00, 08.00, 11.30, 17.00, 18.30, 21.00, 23.00. Sun.: 07.00, 11.30, 18.30, 21.00, 23.00.
FM-PRGR.: W. 05.10–23.15 (Sat. 24.00). Sun. 07.05–23.10 – (Interval Mo.-Fri. 09.15–09.45.)

	ch.	mc/s	kW		ch.	mc/s	kW
Stuttgart II	13	90.9	100	Stuttg.-Funkh.	21	93.2	0.3
Waldenburg II	22	93.6	100	Heidelberg II	3	87.9	80
Aalen II	7	89.1	50	Mühlacker	6	88.8	4
B.Mergenth.IIA	38	98.4	0.5	B.Mergenth.IIB	6	88.85	0.1
Geislingen II	2	87.6	0.5	Wertheim	19	92.72	0.1
Ulm II	15	91.5	0.5	Buchen	19	92.67	0.1

N.: W. 04.30, 05.00, 06.00, 07.00, 08.00, 12.00, 13.00, 17.00, 19.00, 22.00, 23.00. Sun. 07.00, 09.00, 12.00, 19.00, 22.00, 23.00 – **"Volksmusik":** Tues. 16.30–17.00 (Fortnightly). Sun. 06.10–07.00 (every 4 weeks)

ANN.: "Süddeutscher Rundfunk" – **INT.-SIG.:** The first notes of a Swabian folksong: "Jetzt gang i ans Brünnele" – V. by QSL-card.



SÜDWESTFUNK (Anstalt des öffentlichen Rechts).
AD.: 1' Prgr.: Mo.–Fri. 09.15–10.45 exc. Wed, approx. 09.30–10.45, 12.00–13.00. W. also 17.20–17.50. 2' Prgr.: W. 06.10–06,40, Mo.–Fri. 07.30–09.00. Sat. 07.05–08.30.
ADDR.: Anstalt des öffentlichen Rechts, Hans Bredowstrasse, Baden-Baden. **Cable:** Südwestfunk Baden-Baden. **Te.:** 761. – **Studios:** **Freiburg i Br.:** Günterstal, Kyburg. **Mainz:** Deutschhausplatz 8. **Tübingen:** Matthias-Koch-Weg 7. – **"Zweigstellen":** **Kaiserslautern:** Auf dem Sess. **Koblenz:** Januarius-Zick-Str. 8. **Trier:** Zeughausstr. 27.
L.P.: Vorsitzender des Rundfunkrates: Prof. Dr. K. Holzamer, Mainz, Vorsitzender des Verwaltungsrates: Dr. J. Knecht, Freiburg i Br. Intendant: Senator h.c. Prof. Fr. Bischoff. Programmdir. u. stellvertretender Intendant: L. Hartmann. Tech. Dir.: Dr. H. v. Braunmühl. Verwaltungsdir.: A. Manke. Press u. Inf.: H. R. Fröbel. Leiter Freiburg Studio: E. Brugger. Leiter Mainz Studio: T. W. Zwermann. Leiter Tübingen Studio: A. G. Richter.

HOME SERVICE

PRGR. I: Sun. 05.50–24.00. W. 04.45–23.10 (Wed. 24.00, Sat. 01.00).

M.Waves:	kc/s	m	kW		kc/s	m	kW
Bad Dürheim	665	451	20	Sigmaringen	827	363	3
Baden-Baden	827	363	1.5	Trier	827	363	1
Freiburg	827	363	20	Rheinseder	1016	295	120
Kaiserslautern	827	363	3	Ravensburg	1538	195	40
Koblenz	827	363	0.5	Reutlingen	1538	195	10

Short Wave: Bad Dürrheim 7265 kc/s 41.29 m 1.5 kW.

FM	ch.	mc/s	kW		ch.	mc/s	kW
Baden-Baden I	18	92.5	0.25	Linz I	36	97.8	3
Betzdf. I/West	20	93.0	0.25	Potzberg I	28	95.4	3
Blauen I	29	95.7	3	Raichberg I	16	91.8	3
Feldberg I	22	93.6	0.25	Witthoh I	2	87.6	1.5
Haardtkopf I	38	98.4	5	Wolfsheim I	33	96.9	3
Hochrheinsd. I	15	91.5	0.1	Hornisgrinde I	20	93.0	10
Koblenz I	25	94.5	1				

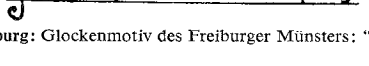
N., Wrp.: 04.50(W), 06.00, 07.00, 08.30(W), 11.45, 15.00(W), 21.00, 23.00. – **"Tribune der Zeit":** W. 18.30. Sun. 18.40. – **"Deutsche Pressestimmen":** W. 12.00.

PRGR. II: Sun. 05.50–24.00. W. 04.45–23.10(Wed. 24.00, Sat. 01.00).

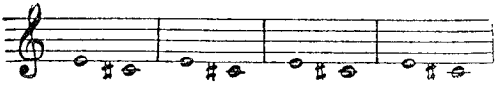
FM	ch.	mc/s	kW		ch.	mc/s	kW
Baden-Baden II	10	89.9	0.25	Mainz II	21	93.3	0.05
Betzdorf II	8	89.4	0.25	Linz II	30	96.0	3
Blauen II	10	90.0	1	Potzberg II	14	91.2	3
Eifel II	4	88.2	2	Raichberg II	30	96.0	3
Feldberg II	38	98.4	0.25	Waldburg II	18	92.4	3
Haardtkopf II	10	90.0	5	Weinbiet II	11	90.3	6
Hochrheinsd. II	19	92.7	0.1	Witthoh II	14	91.2	1.5
Hornisgrinde II	8	89.4	10	Wolfsheim II	41	99.3	3
Koblenz II	13	90.9	1				

N., Wrp.: 04.50(W), 06.00, 07.00(W), 09.00(Sun.), 11.00, 13.45(Sun.), 15.00(W), 19.00, 21.00, 23.00. **French by R.:** Mo., Thurs. 18.45. **English by R.:** Tues., Fri. 18.45.

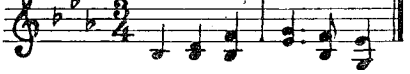
ANN.: "Hier ist der Südwestfunk. Über Mittelwelle und UKW I hören Sie... Über UKW II hören Sie...". – **INT.-SIG.:** **Baden-Baden:** Motif from Mozart's "Zauberflöte": "Bald prangt den Morgen zu verkünden" (Piano).



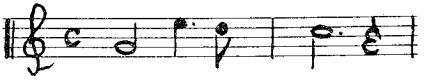
Studio Freiburg: Glockenmotiv des Freiburger Münsters: "Petrus und Maria".



Studio Tübingen: "Droben im Oberland" (2 horns).



Landesstudio Rheinland-Pfalz (Mainz): The first movements of the song: "Dort wo der alte Rhein" (Celesta). – V. by letter.



WESTDEUTSCHER RUNDFUNK (W.D.R.) (Anstalt des öffentlichen Rechts). – **Fl.:** By license payments.
ADDR.: Wallrafplatz 5, Köln. **Cable:** WDR. **Te.:** 2841. – **Studios:** **Bonn,** Dahlmannstr. 32. **Dortmund,** Westenhellweg 86/88. **Bielefeld,** Lessingstr. 3. **Münster,** Warendorferstr. 1. **Düsseldorf,** Palmenstr. 16.
L.P.: Intendant: H. Hartmann. Justitiar u. Finanzdir.: Dr. H. Brack. Sound Dir.: Dr. F. Brühl. TV-Dir.: Dr. Hans-Joachim Lange. Dir. Tec.: K. Schulz. Verwaltungsleiter: H. Sand. Int. Program Austausch: Frau Dr. F. Hömke. Pressechef: J. Rick.
HOME SCE.:
M.W.-Prgr.: W.: 03.55–09.30, 10.00–03.53 (Sat. 10.00–04.55). Sun. 04.58–03.53.

Medium Waves:	kc/s	m	kW		kc/s	m	kW
Aachen/Stoln.	701	428	2	Münster	1502	199.7	0.8
Herford	701	428	2	Bonn	1586	189	5
Siegen	755	397	2	Kleve	1586	189	3
Langenberg	971	309	100				

FM. Common WDR and NDR m.w. prgr.

	ch.	mc/s	kW		ch.	mc/s	kW
Langenberg	3	87.9	100	Nordhelle	39	98.7	15
Köln	21*	93.4	0.5	Teutob. Wald	42	99.6	100
Aachen	38	98.4	5				

N., Wrp.: W.: 04.00 05.00, 06.00, 07.00, 07.55, 12.00, 16.00(exc. Sat.), 18.00, 20.45, 23.00. Sun.: 06.00, 08.00, 12.00, 18.00, 20.45, 23.00. – Comm.: Mo.–Fri.: 18.10–18.15, 21.00–21.10. – Rel.: Sun. 09.00–10.00. W. 05.50–06.00.

1st. FM-prgr.: Mo.–Sat. 05.45–23.00. Sun. 06.00–24.00.

	ch.	mc/s	kW		ch.	mc/s	kW
Bonn	6	88.8	0.5	Siegen	16	91.8	0.5
Köln	9÷89.75		0.5	Nordhelle	23	93.9	15
Aachen	10÷89.9		5	Teutob. Wald	24	94.2	100
Monschau	10	90.0	0.05	Münster	25	94.5	5
Kleve	15	91.5	0.25	Langenberg	29	95.7	100
Eifelsender	16	91.8	6				

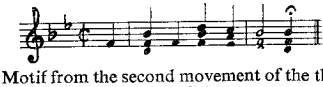
N., Wrp.: W.: 06.30, 07.30, 11.30, 16.45(Sat. 17.10), 19.00, 22.00. Sun.: 07.30, 11.40, 19.00, 22.00. – Rel.: W. 07.35–07.45. Sat. 17.15–17.45.

2nd FM-prgr.: Sat. 19.00–21.00. Sun. 14.30–16.30.

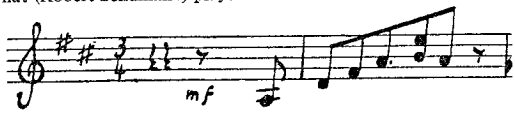
	ch.	mc/s	kW		ch.	mc/s	kW
Langenberg	11÷90.2		50	Münster	13	90.9	5
Teutob. Wald	12÷90.65		100	Nordhelle	32	96.6	15

ANN.: 1st Prgr.: "Westdeutscher Rundfunk". – 2nd Prgr.: "Westdeutscher Rundfunk, Ultrakurzwellenprogramm", "Westdeutscher Rundfunk, zweites Ultrakurzwellenprogramm".

INT.-SIG.: M.W. Prgr.: Motif from "In allen guten Stunden" (L. van Beethoven). Electronic instrument.

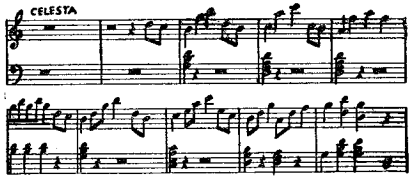


1st FM Prgr.: Motif from the second movement of the third symphony E-flat (Robert Schumann) played on Celeste.



2nd FM Prgr.: Motif from the "Magic Flut" (Mozart): "Das klinget so herrlich, das klinget so schön" played on Celeste.

V. by letter.



BERLIN–WEST

RIAS-BERLIN. FI.: By United States Information Agency.

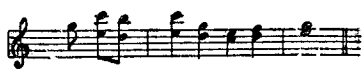
ADDR.: Berlin-Schöneberg, Kufsteinerstr. 69. – Cable: RIAS-Berlin. Te.: 710271. – L.P.: Dir.: A. A. Klieforth. Dir. Prgr.: Heinz-Adolf von Heintze. Dir. Adm.: M. R. Braun. Dir. Tec.: Albert Pösniker. Dir. Listeners Rel.: H. Kirstaedter. Dir. Press.: H. O. Sauber.

STATIONS:	kc/s	m	kW	
München[3])	173	1735	1000	D. 04.30–07.30, 10.45–12.00, 20.00–21.00.
Berlin/Hof[1])	683	439	100	D. 24 h. on 989 kc/s and FM. The other freq's have short daily intervals at various hours.
Hof	737	407	40	
Berlin[2])	854	351	20	
Berlin[1])	989	303	300/200	
Berlin[1])	6005	49.96	20	

FM:	ch.	mc/s	kW	
Berlin[2])	6	88.8	10	[1]) RIAS I. [2]) RIAS II. [3]) VOA.
Berlin[1])	17	92.1	3	

N., Wrp.: D.: 23.00, 00.00, 01.00, 02.00, 03.00, 04.00, 04.30, 05.30, 06.30, 07.30, 08.30, 10.30(W), 11.30, 12.30(W), 15.30(Sun.). – RIAS I: 12.00(Sun.), 18.00, 20.30(W), 21.00(Sun.), 22.00(W). – RIAS II: 11.30(Sun.), 15.30(Sun.), 18.30, 20.30(Sun.), 21.00(W). – N. on 173 kc/s: D.: 04.30, 05.30, 06.30, 07.15(W), 11.00(W), 11.30 (Sun.), 11.50. – Folklore Music: Mo. 20.00 (RIAS I); Thurs. 09.15; Sat. 14.00 (RIAS II). – Rel. (RIAS I÷II): Sun.: 07.00, 07.38; W. 05.40. L.L.: English: Mo., Thurs. 14.30 (RIAS II); Tues., Fri. 09.30 (RIAS I). French: Mo., Thurs. 09.30 (RIAS I); Tues., Fri. 14.30 (RIAS II). "Aus der Zone für die Zone": W. 18.45 (RIAS II), W. 18.15 (RIAS I). – "Die Woche in Bonn": Sun.: 11.00 (RIAS II), 12.30 (RIAS I).

ANN.: "Hier ist RIAS-Berlin". – INT.-SIG.: From a Trio Sonata.



V. by QSL-card, addressed to: Hörerpost. – PUB.: Press sce. fortnightly. RIAS schoolbroadcast every six weeks.

SENDER FREIES BERLIN (Anstalt des öffentlichen Rechts)

AD: W. 05.30–06.40, 10.00–11.15. From 16.30. – ADDR.: Masuren Allee 8–14, Berlin Charlottenburg 9, (West Berlin). Cable: Sender Freies Berlin. Te.: 920251. – L.P.: Intendant: W. Steigner. Dir. Prgr.: H. H. Fischer. Dir. Adm.: H. Koch. Dir. Tec.: U. Blässer.

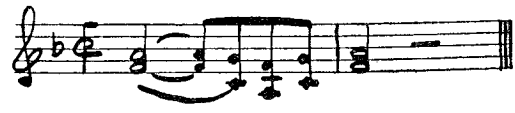
HOME SCE.:

Berlin 1st Prgr. 566 kc/s 530 m 20 kW – FM 90.0 mc/s 10 kW
Berlin 2nd Prgr. 1484 kc/s 202 m 5 kW – FM 93.6 mc/s 10 kW

1st Prgr.: Mo.-Fri. 03.55–03.30. Sat. 03.55–04.30. Sun. 04.58–03.30. N.: 04.00 (W), 05.00 (W), 06.00, 07.00 (W), 08.00, 12.00, 16.00 (W), 18.45, 21.00, 23.00. – Rel.: Sun. 09.00, W. 04.50.

2nd Prgr.: Mo.-Fri. 15.00–23.35. Sat. 13.00–23.10. Sun. 06.58–00.05. N.: W. as 1st prgr. exc. 22.00 instead of 21.00. Sun. 07.00, 12.00, 18.45, 22.00.

ANN.: "Hier ist der Sender Freies Berlin mit dem ersten Prgr.... zweiten Prgr.". – INT.-SIG.: Beethoven's Egmont-Fanfare. – V. by QSL-card. – F.PL.: 100 kW m.w. tr. 1st Prgr. 566 kc/s).



ALLIED STATIONS

AMERICAN FORCES NETWORK (United States Army)

The American Forces Network operates solely to provide American Forces in Europe with information, education and entertainment by means of radio broadcasting.

ADDR.: United States Army Element, American Forces Network, Europe APO 757, New York, N. Y., USA. Te.: Frankfurt 314.800. – L.P.: Commander, American Forces Network: Lt. Colonel R. Cranston. Prgr. Supervisor: D. Brewer. Tec. Supervisor: F. C. Mortensen.

STATIONS:	kc/s	m	kW		kc/s	m	kW
Munich*)	548	547	100	Bamberg	1304	230	0.25
Nürnberg*)	611	491	10	Berchtesgaden	1304	230	0.25
Grafenwöhr	611	491	10	Heidelberg	1304	230	1
Kaiserslaut.*)	872	344	150	Regensburg	1304	230	0.25
Frankfurt*)	872	344	150	Fulda	1304	230	0.25
Berlin*)	935	321	10	Wertheim	1304	230	0.25
Ansbach	1034	290	0.25	Bitburg	1394	215	0.25
Bad Kissingen	1034	290	0.25	Garmisch	1502	199.7	0.25
Stuttgart*)	1106	271	100	Giessen	1502	199.7	0.25
Bremerhaven*)	1142	263	5	Straubing	1502	199.7	0.25
Hersfeld	1142	263	0.25	Rothwesten	1502	199.7	0.05
Schweinfurt	1142	263	0.25	Wildflecken	1502	199.7	0.05
Würzburg	1142	263	0.25	*) Studio Installations.			

FM: Frankfurt FM 94.9 mc/s 3.16 m 55 kW ERP. – D. PRGR.: 05.00 (Sun. 06.00)–24.00 – N.: Every h. on the h. – Local N.: Mo.–Fri. 16.50. Wrp.: 06.00, 11.00, 17.00, 21.00. – Rel.: Sun. 08.05–10.35 Sun. Services, W. 17.45–18.00 (Hymns from Home).

ANN.: "This is AFN, The American Forces Network, Europe" announced at least every half hour. – INT.-SIG.: Every h. on the h. AFN announces the time and the sixth and final pip is exactly on the h. as announced. – V. by QSL-card.

BRITISH FORCES NETWORK (Military)

B.F.N. is operated by the War Office for the purpose of providing entertainment and a reliable news service for H. M. Forces in N.W. Germany and Berlin. It is a non commercial organisation and does not accept advertising.

ADDR.: BFN, Cologne, British Forces Post Office 19. Te.: 381757.

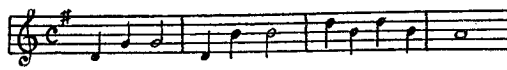
L.P.: St. Dir.: I. J. Woolf. S.P.O.: D. G. Philips. Dir. Tec.: A. L. Langford.

STATIONS: FM:

	mc/s	kW		mc/s	kW		mc/s	kW
Langenberg	89.15	60	Bonn	91.4	3	Berlin	94.3	3
Nordhelle	89.15	18	Herford	92.9	6	Drachenberg	99.3	60
Verden	90.3	60						

English: 05.30(Sun. 07.00)–22.30(Sat. 24.00). – N. from BBC: 07.00, 08.00, 12.00, 18.00, 21.30. N. summaries on the half h. hourly. – N. of Germany: W.: 06.50, 12.10. – Rel.: Sun. 08.45, W. 06.55. – L.L.: (Oct.–April) "Sprechen Sie Deutsch" 09.00, 18.15. – Wrp.: 06.30, 07.10, 12.10, 18.15, 22.30.

ANN.: "This is the British Forces Network in Germany". – INT.-SIG.: British Army Bugle Call "Fall-in" played on Celeste.



V. by letter. Re. appreciated. R. p. – PUB. BFN: bulletin weekly.

RADIO FREE EUROPE

(Private, non-commercial). – FI.: By American contribution.
ADDR's: Radio Free Europe, a Division of the Free Europe Committee Inc., 2 Park Avenue, New York 16, New York, USA. – **Te.:** Lexington 2-8900. – **European address:** Englischer Garten 1, München 22, Germany. – **Cable:** Raduropa. – **Te.:** 229921.
L.P.: Pres. Free Europe Committee Inc. (New York): Archibald S. Alexander. Dir., Radio Free Europe: Thomas H. Brown, Jr. European Dir.: Erik Hazelhoff. Ass. European Dir.: Charles J. McNeil, J. David Penn. Dir. of Engineering: Russell E. Geiger jr. European Dir. of Engineering: Meredith L. Koerner.
STATIONS:
Medium Wave: Holzkirchen 719 kc/s 417.2 m 135 kW.
Short Wave: Eight s.w. tr.s in Biblis, Germany (10, 20, 50 kW), and thirteen s.w. tr.s in Portugal (10, 50, 100 kW).

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
3960	75.75	7155	41.93	9705	30.91	11885	25.24	15405	19.47
5960	50.37	7165	41.87	9712	30.89	11895	25.22	15420	19.46
5970	50.25	7175	41.80	9715	30.88	11915	25.17	17725	16.93
5985	50.12	7180	41.78	9717	30.87	11930	25.15	17735	16.92
5990	50.08	7192	41.72	9725	30.85	11940	25.13	17770	16.88
6015	49.88	7205	41.64	9750	30.77	15115	19.85	17805	16.85
6020	49.83	7225	41.52	11725	25.59	15135	19.82	17835	16.82
6095	49.22	7235	41.47	11735	25.56	15145	19.81	17840	16.82
6105	49.14	7245	41.41	11745	25.54	15170	19.78	17855	16.80
6125	48.98	7285	41.18	11755	25.52	15185	19.76	17875	16.79
6130	48.94	7295	41.12	11760	25.51	15195	19.74	17885	16.78
6160	48.70	9505	31.56	11775	25.48	15215	19.71	21485	13.97
6185	48.50	9595	31.27	11805	25.41	15255	19.66	21600	13.89
7105	42.22	9605	31.23	11815	25.39	15265	19.66	21620	13.87
7115	42.16	9655	31.07	11820	25.38	15295	19.61	21665	13.84
7140	42.02	9670	31.02	11830	25.36	15355	19.54	21720	13.81
7145	41.99	9695	30.95	11855	25.31	15365	19.53	21745	13.80

Most RFE frequencies are registered for use both in Germany and in Portugal and the selection of transmission location is a function of propagation conditions throughout the year.
D. PRGR. directed to Bulgaria, Czechoslovakia, Hungary, Poland, and Rumania:

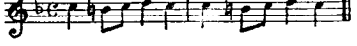
BULGARIAN SCE.: 04.30–06.00 (Sun. 05.30–07.00), 17.00–18.00, 20.00–22.00, 22.30–23.00 in 49, 41, 31, 25, 19, 16, and 13 m.b.: N. every h. on the h.

CZECH/SLOVAK SCE.: 03.57(Sun. 05.57)–22.00, 22.40–23.00 on 417 m, and in 75, 49, 41, 31, 25, 19, 16, and 13 m.b.: N. every h. on the h.

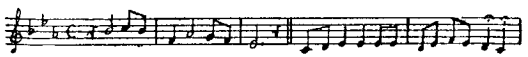
HUNGARIAN SCE.: 04.25(Sun. 06.55)–22.00, 22.20–22.40 on 417 m, and in 75, 49, 41, 31, 25, 19, 16, 13 m.b.: N. every h. on the h.

POLISH SCE.: 03.55(Sun. 04.55)–22.20 on 417 m, and in 75, 49, 41, 31, 25, 19, 16, 13 m.b.: N. every h. on the h.

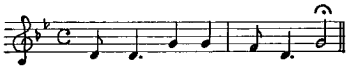
RUMANIAN SCE.: 03.00–04.30 (Sun. 04.00–05.30), 16.00–17.00, 18.00–20.00, 22.00–22.30 in 49, 41, 31, 25, 19, 16, 13 m.b.: N. every h. on the h.
Meter band assignments change throughout the year as propagation conditions vary.
ANN.: Sign on and sign off: **Bulgarian:** "Took e Radio Svobodna Evropa" ("This is Radio Free Europe").
Czechoslovak: "Hlásí se vám československá stanice rozhlasu Svobodná Evropa" ("This is the Czechoslovak Station of Radio Free Europe calling").
Hungarian: "Itt a Szabad Europa Radiója" ("This is Radio Free Europe").
Polish: "Mówi rozglosnia Polska Radia Wolna Europa" ("This is the Polish station of Radio Free Europe").
Rumanian: "Aici e Radio Europa Libera, Jurnalul vorbit al Romanilor de pretutindeni" ("Here is Radio Free Europe, the spoken journal of all Rumanians").
INT.-SIG.:
Bulgarian: Part of Bulgarian National Anthem (Celeste):



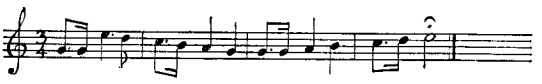
Czech/Slovak: Czech and Slovak National Anthem (Celeste):



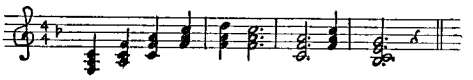
Hungarian: Old Hungarian folksong: "From the Tisza, past the Danube".:



Polish: Polish patriotic song: "Hail Glorious Dawn of May". (Brass instruments):



Rumanian: Rumanian folk tune. (Piano and Celeste):
V. by QSL-card. R. p.



V. by QSL-card R. p.

RADIO FFB

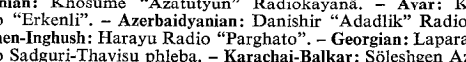
Relay station for entertainment of the French Forces in Berlin.
ADDR.: Kurt-Schumacher-Damm, Quartier Napoléon, Berlin-Reinickendorf – FM 96.75 mc/s 3 kW: Continuously exc. from 08.00–09.00 (Mo., Wed., Fri.) and Thurs. 23.00–Fri. 05.13. – **Rel.:** RTF prgrs.

RADIO LIBERTY (Pr. – Former Citizens of the U.S.S.R.)

R. Liberty speaks to the peoples of the U.S.S.R. and the Soviet Armed Forces as the free voice of their fellow countrymen abroad. R. Liberty is supported by the American Committee for Liberation, Inc., which derives its funds from private persons and organizations in the U.S.A. and which also operates the transmitting facilities.
ADDR.: Radio Liberty, Lilienthalstrasse 2, Munich 19. **Cable:** AmComLib. **Te.:** 62941 – or: American Committee for Liberation, Inc., 1657 Broadway, New York 19, New York, U.S.A. **Te.:** Judson 2–5620. – **L.P.: Headquarters, New York:** President of the American Committee: H. Sargeant. Dir.: R. L. Network Division: S. Y. McGiffert. Chief Eng.: K. Owen. – **Munich:** Deputy to the Pres. Europe: R. F. Kelley. Dir. R. Liberty Division: R. Bertrandias.
STATION Lampertheim 9 s.w. tr. 20 and 50 kW (E.R.P.)

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
3990	75.18	7255	41.35	9730	30.83	11925	25.16	15410	19.47
6055	49.55	7275	41.23	9765	30.72	11935	25.13	17710	16.94
6175	48.58	9565	31.36	11720	25.60	11965	25.06	17720	16.93
6185	48.50	9585	31.30	11755	25.52	15105	19.86	17730	16.92
7130	42.08	9595	31.26	11765	25.50	15225	19.70	17745	19.91
7170	41.84	9660	31.06	11780	25.47	15255	19.65	17755	16.90
7220	41.55	9665	31.04	11785	25.46	15300	19.61	17765	16.89
7225	41.52	9680	30.99	11825	25.38	15370	19.52	17785	16.87
7245	41.40	9705	30.91	11920	25.17	15395	19.49	17865	16.80

D.PRGR.: 00.00–24.00. Prgr.'s prepared in Munich.
Target areas: E. Germany 75, 49, 41, 31, 25 m.b.–Hungary 75, 49, 41 m.b. – No. So. Russia, Byelo-Russia, Ukraine 49, 41, 31, 25, 19, 16 m.b. – Tartaristan, Bashkiristan, Caucasus, Turkestan 41, 31, 25, 19, 16 m.b.
N.: Every h. on the h.
ANN.: Russian: "Govorit Radiostantsiya Svoboda". – **Ukrainian:** "Hovoryt Radio Svoboda". – **Byelorussian:** "Havoryts Radiyo Svaboda". – **Adyg:** "Kä gushaäryr Sxafitynughä Radio Stantsiyem". – **Armenian:** Khosume "Azatutyun" Radiokayanä. – **Avar:** Kalala Radio "Erkenli". – **Azerbaidyanian:** Danishir "Adadlik" Radiosu. – **Chechen-Inghush:** Harayu Radio "Parghato". – **Georgian:** Laparakobs Radio Sadguri-Thavisu phleba. – **Karachai-Balkar:** Söleshgen Azatlik Radiostansyasidi. – **Kazakh:** Söylepturghan Azattik radiosi. – **Kirgiz:** Azattik radiosu süylöyt. – **Osset:** "Dzury radio Säribar". – **Tadzik:** Indjo Radio "Ozodi". – **Tartar Bashkir:** "Azatlyk Radiosysöi'li". – **Turkmen:** "Gepleyär Azatlik Radiosi". – **Uzbek:** Azatlik radiosi gapiradi.
INT.-SIG.: Hymn to Freedom – by Gretchaninoff.



V. by QSL-card.

VOICE OF AMERICA RADIO STATION IN GERMANY

ADDR.: Voice of America, Washington 25, D.C., U.S.A.
Long Wave: Munich–C 173 kc/s 1734 m 1000 kW 04.30–07.30, 10.45–12.00, 17.00–00.00.
Medium Wave: Munich A 1196 kc/s 251 m 150 kW 04.00–06.30, 17.00–23.30.
Short Wave: Munich 8/100 kW 02.00–08.00, 14.00–23.00.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
3980	75.38	6185	48.50	9590	31.28	11830	25.36
6100	49.18	6190	48.47	9635	31.14	15330	19.57
6140	48.86	7235	41.47	11740	25.55	15415	19.46
6145	48.82	9530	31.48	11760	25.51	15440	19.43
						21585	13.90

DAILY PRGR.:
Long Wave:

04.30–07.30 RIAS	20.00–21.00 RIAS	21.00–21.30 Russian
10.45–12.00 RIAS	19.15–19.30 German	21.30–22.00 Polish
17.00–19.15 English	19.30–20.00 Polish	22.00–00.00 English

Medium Wave:

04.00–04.30 English	17.00–18.30 English	21.00–21.15 Serb.
04.30–04.45 Serb.	18.30–19.00 Lithuan.	21.15–21.30 Slovene
04.45–05.00 Music	19.00–19.30 Serb.	21.30–22.00 Polish
05.00–05.30 English	19.30–20.00 Polish	22.00–22.30 English
05.30–05.45 Serb.	20.00–20.30 Estonian	22.30–23.00 Czech
05.45–06.00 Music	20.30–21.00 Latvian	23.00–23.30 Hung.
06.00–06.30 English		

Short Wave: See USA.
ANN.: "This is the Voice of America Transmitter, Munich". – **INT.-SIG.:** Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – V. by QSL-card. No return postage required.

GERMAN DEMOCRATIC REPUBLIC

L.T.: GMT+1 h. – **Pr.L.:** German. – **Po.:** 17.298.165. – **Revrs.:** 6.082.579 – **E.C.:** 220 V, A.C., 50 c/s.

STAATLICHES RUNDFUNKKOMITEE (Go.)

ADDR.: Staatliches Rundfunkkomitee, Berlin-Oberschöneweide, Nalepastrasse 18–50. – **Cable:** Funkkomitee. **Te.:** 6328 31.
L.P.: Dir. Gen.: Prof. Dr. H. Ley. Prof. G. Eisler. Dir. Adm.: H. Ebel. Dir. Tec.: W. Schmidt. Dir. Foreign Rel.: M. Müller. Intendant: H. Geggel (Deutschlandsender), H. Classen (Berliner Rundfunk), W. Kleinert (Radio DDR).

HOME SERVICES in German:

Deutschlandsender: 24 h.			656 kc/s	457.3 m	20 kW
185 kc/s	1621.6 m	200 kW	692 –	433.8 –	200 –
782 –	383.6 –	200 –	6115 –	49.06 –	20 –
728 –	412.1 –	200 –	7300 –	41.10 –	5 –

FM: Dequede 96.95 mc/s 1 kW – Inselsberg 97.15 mc/s 10 kW – Schwerin 97.3 mc/s 10 kW – Leipzig 96.55 mc/s 10 kW – Brocken 97.4 mc/s 10 kW – Sonneberg 97.6 mc/s 1 kW – Berlin 97.65 mc/s 3 kW.
N., Wrp.: D.: 01.00, 02.00, 03.00(W), 03.30(W), 04.00, 04.30(W), 05.00, 05.30(W), 06.00, 07.00, 09.00, 11.00(W), 12.00, 14.00(W), 16.00, 18.30, 21.00, 23.00, 24.00. – **Comm.:** W.: 18.42, 23.07 (rep.). Sun.: 11.00, 23.07 (rep.). – **Folklore Music:** Sun. 06.20 (2nd and 4th week), Mo. 09.25, Tues., Fri. 13.00, Thurs. 15.30, Sat. 10.30.

Berliner Rundfunk 1. Prgr.: 03.30–24.00(Sat. 01.00).

	kc/s	m	kW		kc/s	m	kW
Karl-Marx-St.	602	498.5	5	Plauen	1079	278.1	2
Berlin	611	491	200	Bernburg	1196	250.8	20
Reichenbach	912	328.9	35				

FM: Dresden 89.8 mc/s 10 kW – Leipzig 90.4 mc/s 10 kW – Marlow 99.85 mc/s 1 kW.
N., Wrp.: D.: 03.33(W), 04.30, 05.30, 06.30, 07.30(W), 09.30, 11.30, 12.30(Sun.), 15.30, 18.30, 20.30, 22.30, 23.30. – **Comm.:** W.: 18.30, 23.35 (rep.). Sun. 11.30. – **Folklore Music:** Sun.: 07.03, 12.50, Mo., Fri. 15.00, Tues. 12.40, Thurs. 15.55.

Berliner Welle: 1358 kc/s 220.9 m 200 kW: 15.30–23.15.
FM: Stülpe 91.6 mc/s 1 kW, Berlin 98.6 mc/s 10 kW.
N.: 16.00, 19.30, 21.30, 23.00. – **Comm.:** 18.00, 23.05 (rep. W.).

Radio DDR I: 24 hours.

	kc/s	m	kW		kc/s	m	kW
Cottbus	520	576.9	5	Berlin	881	340.5	100
Schwerin	529	567.1	5	Dresden	1043	287.6	240
Greifswald	557	538.6	5	Suhl	1052	285.1	5
Leipzig	575	521.7	100	Seelow	1570	191.1	5
Erfurt	629	476.9	20				

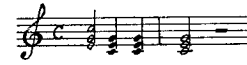
FM: Görlitz 95.4 mc/s 1 kW – Leipzig 88.45 mc/s 3 kW – Schwerin 92.75 mc/s 10 kW.
N.: 01.00, 03.05, 04.00, 05.00, 06.00, 07.00, 08.00(Sun.), 09.00, 10.00 (Sun.), 11.00, 12.00, 13.00(Sat., Sun.), 15.00, 16.00, 18.00, 21.00, 23.00, 24.00(Sat.). – **Comm.:** Sun. 12.00, W. 18.00. – **Folklore Music:** Sun. 10.20, Mo.: 07.10, 15.15, Tues. 11.10, Wed. 17.00, Thurs. 17.27.
Radio DDR II: D. 17.00(Sun. 16.05)–23.00.
FM: Marlow 91.05 mc/s 10 kW – Leipzig 93.95 mc/s 10 kW – Rheinsberg 95.25 mc/s 10 kW – Helpterberg 99.1 mc/s 1 kW – Karl-Marx-Stadt 92.9 mc/s 10 kW – Schwerin 94.6 mc/s 10 kW – Burg 98.15 mc/s 1 kW.
N.: 19.00, 21.00. – **Comm.:** W. 21.00.

RADIO BERLIN INTERNATIONAL:
European Service:
Königswusterh. 6115 kc/s 49.06 m, 7300 kc/s 41.10 m,
Leipzig 9730 kc/s 30.83 m.
English: 18.00–18.30, 20.00–20.30, 22.00–22.30, 23.00–23.30. – **French:** 18.30–19.00, 20.30–21.00, 22.30–23.00. – **Danish:** 17.30–18.00, 19.00–19.30, 21.00–21.30. – **Swedish:** 17.00–17.30, 19.30–20.00, 21.30–22.00. **DX-prgr.:** First Mo. in the month at 17.00.

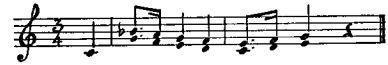
Near East Service:
Nauen 6080 kc/s 49.34 m, 11765 kc/s 25.50 m – Leipzig 9730 kc/s 30.83 m.
Arabic: 04.00–06.00, 11.00–13.00, 17.00–20.00 on 9730/11765 kc/s. – **German:** 06.00–07.00, 13.00–16.00 on 9730/11765 kc/s, 20.00–23.00 on 11765 kc/s. – **English:** 16.00–16.30, 23.00–23.30 on 11765 kc/s.
Africa Service: Leipzig 12008 kc/s 24.98 m: 16.15–17.45.
English: 16.15–17.00. – **French:** 17.00–17.45.

ANN.: Home Service: "Hier ist der Deutschlandsender (Berliner Rundfunk)". "Hier ist Radio DDR mit seinen Sendern". – **R. Berlin International: English:** "This is Radio Berlin International the Voice of the German Democratic Republic". **French:** "Ici Berlin International, la Republique Démocratique Allemande vous parle". Africa Sce.: "Ici R. Berlin International, la Voix de la Republique Democratique Allemande". **Swedish:** "Här är Radio Berlin International, Tyska Demokratiska Republikens sänding på Svenska". **Danish:** "Godaften De lytter til R. Berlin International. Den Tyske Demokratiske Republik sender til Danmark"

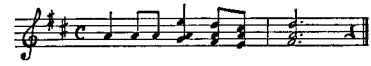
INT.-SIG.: Deutschlandsender: From "Die Meistersinger von Nürnberg" (Richard Wagner)



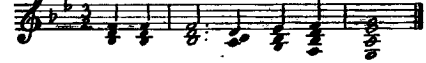
Berliner Rundfunk I: Motif from Opera "Regina" (Albert Lortzing) performed by 2 French horns.



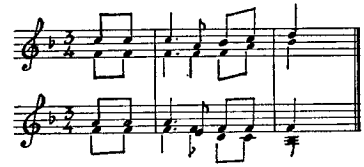
Berliner Rundfunk II: Motif: Heimat wir lassen dich nicht from the cantata "Des Sieges Gewissheit" composed by the National-Prizewinner Ernst-Hermann Meyer performed by 3 trumpets.



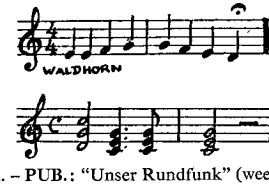
Radio D.D.R. I: "Wann wir schreiten Seit an Seit" ("mit uns zieht die neue Zeit").



Radio D.D.R. II: Melody: "Mit uns zieht die neue Zeit"



Foreign Sce.: Theme from Ludwig van Beethovens 9. symphony ("Freude, schöner Götterfunken"):



V. by QSL-card. – **PUB.:** "Unser Rundfunk" (weekly) free on request.

COMMITTEE FOR RETURNING INTO THE HOME COUNTRY.

For Russian immigrants – **ADDR.:** Komitet sa Woswrashenye na rodinu, Schadowstr. 1B, Berlin N.W.7. – **PRGR's in Russian and Baltic languages:** Leipzig 1322 kc/s 226.9 m 100 kW: **D. Prgr.:** 05.00–06.00 (Sun. 08.00), 09.00–12.00 (Sun. only), 14.55–15.55, 20.00–20.30. – **ANN.:** "Govorit Komitet sa woswrashtshenije na rodinu" or "Slushaitje Golos sowjetskeji rodini". – **PUB.:** Prgr.-sched. in Russian.

RADIO WOLGA (Russian Military)

ADDR.: Menzelstr., Potzdam.
STATION: Königswusterhausen 263 kc/s 1141 m 150 kW: Relay R. Moscow I.

★ GIBRALTAR (British Colony) ★

L.T.: GMT+1 h. – Pr. L.: English, Spanish. – Po.: 25.000. – Rcvrs.: 4765. – E.C.: 240 V., A.C., 50 c/s.

RADIO GIBRALTAR (Go., Comm.)
FI.: By Go. and adv. AD.: 4 h. per day. – ADDR.: British Colonial Secretariat, Gibraltar. – L.P.: British Colonial Secretariat (Officer in Charge), Public Rel. Officer: E. H. Davis. Dir. Tec.: T. G. Black W.D. STATION: Wellington Front 1484 kc/s 202.2 m 0.5 kW.

D.PRGR.: English, Spanish: W.: 07.55–09.30, 11.50–16.00 (Sat. 11.00–24.00), 17.55–24.00. Sun.: 09.55–16.00, 17.55–24.00. English: N. 08.00 (W), 12.00 (not Sat.), 21.00. Wrp.: W. 08.25, 11.50. Sun. 09.55. Spanish: N. 14.15, 22.15. – PUB.: Prgr. sched. free on request.

★ GREAT BRITAIN ★

L.T.: GMT (Su.: GMT+1 h). – Pr. L.: English. – Po.: 50.383.000. – Rcvrs.: 15.168.383. – E.C.: 210/250 V., A.C., 50 c/s.

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HOME SCE.: W. 06.45–23.36 approx. Sun. 07.50–23.36 approx.

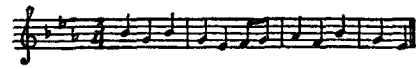
		kc/s	m	kW
Cromer	Northern	692	434	2
Moorside Edge	–	692	434	150
Whitehaven	–	692	434	2
Barrow	–	1484	202	2
Westerglen	Scottish	809	371	100
Burghead	–	–	–	100
Redmoss	–	–	–	5
Dumfries	–	–	–	2
Washford	Welsh	881	341	100
Penmon	–	–	–	8
Towyn	–	–	–	5
Wrexham	–	–	–	2
Brookmans Park	London	908	330	140
Ramsgate	–	1484	202	2
Start Point	West	1052	285	120
Barnstaple	–	–	–	2
Clevedon	–	1457	206	20
Bartley	–	–	–	10
Brighton	–	–	–	2
Folkestone	–	–	–	1
Bexhill	–	–	–	2
Redruth	–	–	–	2
Droitwich	Midland	1088	276	150
Postwick	–	–	–	7.5
Lisnagarvey	N. Ireland	1151	261	100
Londonderry	or Northern	–	–	0.25
Stagshaw	–	–	–	100
Scarborough	–	–	–	2

N.: 07.00(W), 08.00, 09.00, 10.30(W), 13.00, 18.00, 22.00, 23.00. Greenwich T.S.: 07.00(W), 08.00, 09.00, 11.00(W), 13.00, 18.00, 23.00.

LIGHT PRGR.: W. 06.30–24.00. Sun. 09.00–24.00.

	kc/s	m	kW		kc/s	m	kW
Droitwich	200	1500	400	Moorside Edge	1214	247	50
Brookmans Park	1214	247	50	Plymouth	–	–	0.25
Burghead	–	–	20	Redmoss	–	–	2
Lisnagarvey	–	–	10	Redruth	–	–	2
Londonderry	–	–	0.25	Newcastle	–	–	2
				Westerglen	–	–	50

N.: 11.00(W), 22.30(W). – INT.-SIG.: Oranges and Lemons.



There are four versions, one played on the novachord and three played on the novachord celeste; the last three differ in that they are of varying duration. Also, Harp arpeggio – choice of six harp interludes.

THIRD PRGR.: 20.00 (Sat. 18.00, Sun. 17.00)–23.00 approx.
647 kc 464 m: Daventry (150kW); Edinburgh, Glasgow, Newcastle, Redmoss (2 kW). – 1546 kc 194 m: Belfast, Bournemouth, Dundee, Exeter, Stockton (0.25 kW); Brighton, Fareham, Leeds, Liverpool, Preston, Plymouth, Redruth, Swansea (1 kW).

NETWORK THREE: Mo.–Fri. starts between 18.00– and 19.00–20.00. Sat. 16.00–18.00. (Transmitters as for Third Prgr.)

FM	Home Sce.	Light Pr.	Third Pr.	kW E.R.P.
Wrotham (Kent)	93.5	89.1	91.3	120
Pontop Pike (Newcastle)	92.9	88.5	90.7	60
Divis (Belfast, N. Ireland)	94.5	90.1	92.3	60
No. Hessary Tor (So. Devon)	92.5	88.1	90.3	60
Meldrum (Aberdeenshire)	93.1	88.7	90.9	60
Holme Moss (No. England)	93.7	89.3	91.5	120
Sutton Coldfield (Birmingham)	92.7	88.3	90.5	120
Norwich (Norfolk)	94.1	89.7	91.9	120
Blaen Plwyf (We. Wales)	93.1	88.7	90.9	60
Wenvoe (So. Wales)	94.3* 92.125**	89.95	96.8	120
Rowridge	92.9	88.5	90.7	60
Kirk O'Shotts	94.3	89.9	91.2	120
Sandale (Carlisle)	94.7*** 92.5****	88.1	90.3	120
Rosemarkie (Moray Firth)	94.0	89.6	91.8	3/12d
Llanddona (Anglesey)	94.0	89.6	91.8	3/12d
Llangollen (No. Wales)	93.3	88.9	91.1	5/11d
Isle of Man (Douglas)	92.8	88.4	90.6	3.3
Ordney	93.7	89.3	91.5	3/20d
Thrumster	94.5	90.1	92.3	0.1/10d
Peterborough	94.5	90.1	92.3	1/21d
Dover	94.4	90.0	92.4	–

*) Welsh Home Sce. **) We. of England Home Sce. ***) Northern Home Sce. ****) Scottish Home Sce.

EXTERNAL SERVICES

kc/s	m	kc/s	m	kc/s	m	kc/s	m
3952.5	75.90	7110	42.19	9560	31.38	9915	30.26
3975	75.47	7120	42.13	9570	31.35	11680	25.68
5975	50.21	7130	42.08	9580	31.32	11705	25.63
5990	50.08	7135	42.05	9600	31.25	11725	25.59
6010	49.92	7140	42.02	9615	31.20	11730	25.58
6035	49.71	7150	41.96	9625	31.17	11750	25.53
6040	49.67	7185	41.75	9640	31.12	11770	25.49
6050	49.59	7200	41.67	9660	31.06	11780	25.47
6060	49.50	7210	41.61	9675	31.01	11790	25.45
6070	49.42	7220	41.55	9690	30.96	11800	25.42
6080	49.34	7230	41.49	9700	30.93	11820	25.38
6090	49.26	7250	41.38	9710	30.90	11840	25.34
6110	49.10	7260	41.32	9725	30.85	11860	25.30
6125	48.98	7280	41.21	9735	30.82	11880	25.25
6140	48.86	7325	40.96	9740	30.80	11890	25.23
6150	48.78	9410	31.88	9750	30.77	11910	25.19
6165	48.66	9510	31.55	9755	30.75	11920	25.17
6170	48.62	9525	31.50	9760	30.74	11930	25.15
6175	48.58	9530	31.48	9765	30.72	11945	25.12
6180	48.54	9550	31.41	9770	30.71	11955	25.09
6195	48.43	9555	31.40	9825	30.53	11960	25.08

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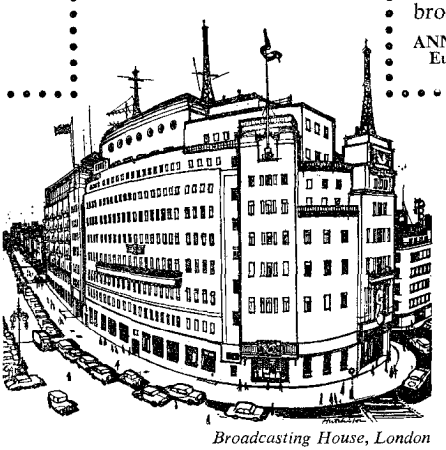

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kc/s	m	kc/s	m	kc/s	m	kc/s	m
11965	25.07	15375	19.51	17840	16.82	21660	13.85
11970	25.06	15390	19.49	17860	16.80	21675	13.84
12040	24.92	15400	19.48	17870	16.79	21710	13.82
12095	24.80	15420	19.46	17890	16.77	21720	13.81
15070	19.91	15435	19.44	18080	16.59	21740	13.80
15110	19.85	15447.5	19.42	21470	13.97	25650	11.70
15130	19.83	17695	16.95	21485	13.96	25670	11.69
15140	19.82	17700	16.95	21490	13.96	25720	11.66
15180	19.76	17715	16.93	21530	13.93	25750	11.65
15210	19.72	17730	16.92	21550	13.92	25840	11.61
15230	19.70	17740	16.91	21615	13.88	25850	11.60
15260	19.66	17745	16.91	21630	13.87	25920	11.57
15300	19.61	17755	16.90	21640	13.86	26040	11.52
15310	19.60	17790	16.86	21650	13.86	26080	11.50
15360	19.53	17810	16.84	21655	13.85		

The above frequencies are shared between the European and Overseas Services and in addition the following frequencies on Long and Medium Waves are used in the European Services.

200 kc/s 1500 m 1295 kc/s 232 m FM: Berlin 87.6 mc/s
647 – 464 – 1340 – 224 –

The two columns below show the wavebands which the BBC expects to use during the months from October to March and April to September. Details of wavelengths can be obtained from the programme journals, and are always announced at the microphone.

EUROPEAN SERVICES:

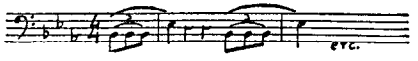
	Oct.-March m.b.	April-Sept. m.b.
In Albanian:		
17.45–18.15 N., Prgr.	31, 25	25, 19
In Bulgarian:		
04.30–04.45 N. Prgr.	75, 49, 41, 31, 25	41, 31, 25, 19, 16
11.00–11.15 N. Prgr.	19, 16, 13, 11	25, 19, 16, 13
14.30–14.45 N. Prgr.	25, 19, 16, 13, 11	25, 19, 16, 13
16.15–16.30 N. Prgr.	25, 19, 16, 13	25, 19, 16
20.30–21.00 N. Prgr.	49, 41, 31, 25	41, 31, 25, 19
In Czech:		
05.15–05.30 N. Tues, Thurs., Fri. Sun.	1500, 464, 232, 224, 75, 49, 41, 31	1500, 49, 41, 31, 19
13.45–14.00 N. Prgr.	31, 25, 19, 16, 13	31, 25, 19, 16, 13
17.30–17.45 E. by R. Sun., Tues., Thurs., Sat.	41, 31, 25	31, 25, 19, 16
20.00–20.30 N. Prgr.	49, 41	31, 25, 19, 16*
22.15–22.30 Mo., Tues., Wed., Fri., Sat.	232, 224, 75, 49, 41	232, 224, 41, 31, 19
In Slovak:		
05.15–05.30 Mo., Wed., Sat.	1500, 464, 232, 224, 75, 49, 41, 31	1500, 49, 41, 31, 25, 19, 16
11.45–12.00 N. Prgr.	31, 25, 19, 16, 13, 11	25, 19, 16, 13
17.00–17.15 N. Prgr.	41, 31, 25, 19	41, 31, 25, 19
22.15–22.30 Thurs., Sun.	232, 224, 75, 49, 41	
In English:		
05.00–05.15 E. by R.	75, 49, 41, 31	75, 49, 41, 31
06.00–06.30 N. Prgr.	464, 75, 59, 41, 31, 25	464, 49, 41, 31, 25
06.45–07.00 E. by R.	464, 232, 75, 49, 41, 31, 25	464, 232, 49, 41, 31, 25, 19[1]
10.15–10.30 Rel. Sce** W. only	31, 25	31, 25
12.15–12.30 E. by R.		
12.30–12.45 E. by R. Dict	31, 25, 19, 16	41, 31, 25, 19, 16
12.45–13.00 N Dict.		
16.45–17.00 E. by R.	232, 49, 41, 31, 25	232, 41, 41, 25, 19, 16[1]
17.15–17.30 E. by R.	232, 224, 49, 41, 31, 25, 19, 16	232, 224, 41, 31, 25, 19, 16
17.30–18.15 N. Prgr.	232, 224, 49, 41, 31,	232, 224, 41, 31, 25,
18.15–18.30 Press Rev.	25	19
19.00–19.15 E. by R.	224, 75, 49, 41, 31	224, 49, 41, 31, 25, 19
19.15–19.30 Dictation	224, 75, 49, 41, 31, 25	224, 49, 41, 31, 25, 19
19.30–19.45 N. Dict.	224, 75, 49, 41, 31	224, 49, 41, 31, 25, 19
21.15–21.30 E. by R.	232, 224, 75, 49,	232, 224, 49, 41,
21.45–22.00 N.	41, 31[1]	31, 19[1]
In Finnish:		
15.30–16.00 (Sun)		25, 19, 16
15.45–16.00 E. by R. (Mo., Wed., Thurs., Sat.)	31, 25	31, 25, 19
16.00–16.45 N. Prgr.	31, 25	31, 25, 19
18.45–19.00 N.	49, 41	41, 31, 25, 19

	Oct.-March m.b.	April-Sept. m.b.
In French:		
06.30–06.45 N. (W)	464, 75, 49, 41	464, 49, 41, 31
07.30–07.45 (Sun.)	464, 49, 31, 41	464, 49, 41, 31
11.30–12.00 N. Prgr.	464, 25, 19	464, 31, 25, 19
19.45–20.45 N. Prgr.	224, 75, 49, 41	224, 41, 31, 25
In German:		
04.45–05.15 N. Prgr.	1500, 232, 75, 49[1]	1500, 232, 49, 41, 31[1]
05.45–06.30 N. Prgr.	1500, 232, 75, 49, 41[1]	232, 49, 41, 31[1]
12.30–13.00 Rel. (Sun.)	232, 31, 25, 19[1]	232, 25, 19[1]
12.30–12.45 N. (W)	232, 25, 19[1]	232, 25, 19[1]
18.45–19.00 "Lernt E."	232, 75, 49	232, 31, 25[1]
19.00–21.15 N. Prgr.	232, 75, 49, 41[1]	232, 31, 25[1]
In Greek:		
05.00–05.15 N. Prgr.	41, 31	31, 25, 19
12.45–13.00 N. Prgr.	16, 13	25, 19, 16
18.30–19.00 N. Prgr.	25, 19	31, 25, 19, 16
20.15–20.30 E. by R. (Sun., Mo., Wed., Fri.)	49, 31	
In Hebrew:		
17.15–17.45 N. Prgr.	31, 25, 19	25, 19, 16, 13
In Hungarian:		
04.45–05.00 N.	464, 75, 49, 41, 31, 25	464, 41, 31, 25, 19, 16
05.45–06.00 N.	75, 49, 41, 31	41, 31, 25, 19, 16
12.00–12.15 N. Prgr.	31, 25, 19, 16, 13, 11	25, 19, 16, 13
13.00–13.15 N. Prgr.	25, 19, 16, 13, 11	
14.00–14.15 N. Prgr.		25, 19, 16, 13
16.45–17.00 N. Prgr.	41, 31, 25, 19, 16	41, 31, 25, 19
17.30–17.45 E. by R. (Mo., Wed., Fri.)	31, 25, 19, 16	31, 25, 19
19.30–20.00 N. Prgr.	41, 31, 25	25, 19
21.30–21.45 N. Prgr.	224, 75, 49, 41	232, 224, 49, 41, 31, 25, 19
In Italian:		
12.15–12.30 N. Press Rev.	19, 16	31, 25, 19
18.30–19.00 N. Prgr.	41, 25	25, 19
21.00–21.45 N. Prgr.	49, 41	31, 25, 19
In Polish:		
04.30–04.45 N. Prgr.		1500, 464, 49, 41, 31, 25
05.30–05.45 N., Prgr.	1500, 464, 232, 224, 75 49, 41, 31	
06.30–06.45 N., Prgr.	75, 49, 41, 31	31, 25, 19
12.45–13.00 E. by R. (Wed., Sat.) 12.00–13.15 N., Prgr.	25, 19, 16	31, 25, 19, 16, 13
14.00–14.15 N., Prgr.	31, 25, 19, 16, 13	
17.15–17.30 N., Prgr.		41, 31, 25, 19
18.15–19.00 N., Prgr.	49, 41, 31	41, 31, 25, 19
21.00–21.30 N., Prgr.	224, 75, 49, 41, 31	224, 49, 41, 31
22.00–22.15 N., Prgr.	224, 232, 75, 49, 41	
In Rumanian:		
04.15–04.30 N., Prgr.	75, 49, 41, 31, 25	49, 41, 31, 25, 19, 16
10.45–11.00 N., Prgr.	19, 16, 13, 11	19, 16, 13
14.15–14.30 N., Press Rev.	25, 19, 16, 13, 11	25, 19, 16, 13
16.00–16.15 N., Prgr.	25, 19, 16, 13	25, 19, 16
19.00–19.30 N., Prgr.	41, 31, 25, 19*	31, 25, 19, 16
21.45–22.00 N., Prgr.	75, 49, 41, 31	49, 41, 31, 25
In Russian:		
03.45–04.15	464, 224, 75, 49, 41, 31, 25	464, 224, 49, 41, 31, 25, 19, 16
15.00–15.30 N., Prgr.	31, 25, 19, 16, 13	31, 25, 19, 16, 13
15.30–15.45 Mo., Wed. Thurs., Sat. 15.45–16.00 Tues., Fri.	31, 25, 19, 16	19, 16, 13
17.00–17.15 E. by R.	49, 41, 31, 25, 19	
17.45–18.15 N., Prgr.	49, 41, 31, 25, 19	41, 31, 25, 19
20.30–21.00 N., Prgr.	49, 41, 31	49, 41, 31, 25, 19
In Spanish:		
13.00–13.15 E. by R. (Mo., Tues., Thurs., Fri.)	31, 25, 19	49, 41, 31, 25
13.15–13.30 N., Prgr.	31, 25, 19	41, 31, 25
21.15–22.00 N., Prgr.	49, 41	49, 41, 31
In Turkish:		
05.30–05.45 N., Prgr.	41, 31	41, 31, 25, 19
15.45–16.00 N., Prgr.	19, 16, 13	25, 19, 16, 13
19.00–19.30 N., Prgr.	31, 25, 19	31, 25, 19, 16

20.15–20.30 E. by R. (Tues., Thurs., Sat.)	49, 31, 25	
In Serbo-Croat:		
13.15–13.30 N., Prgr.	25, 19	25, 19
13.30–13.45 (Sun.)	25, 19	25, 19
13.30–13.45 E. by R. (Mo., Wed.)	25, 19	25, 19
14.45–15.15 Slovene (Sun.)	25, 19	25, 19
16.30–16.45 N., Prgr.	25, 19	25, 19
18.15–18.30 Slovene	31, 25	31, 25
19.30–20.15 N., Prgr.	49, 31	31, 25

* and on additional wavelengths.
** Su. 1 h. earlier. [1] also 87.6 mc/s. Berlin.

GREENWICH TIME-SIGNALS at the hour are radiated on one or other of the European Prgrs. on the long, medium or s.w. normally scheduled at 05.00, 06.00, 07.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 19.00, 20.00, 21.00, 22.00. – **Big-Ben:** 19.00 and 20.00 **ANN.: E.:** "This is London calling in the European Service of the BBC". – **Fr.:** "Ici Londres". – **G.:** "Hier ist England". – **I.:** "La Voce di Londra". – **INT.-SIG.: for European Service:** Morse Signal "V" (V for Victory) played on Timpani (i. e. ...–).



OVERSEAS SERVICES:

GENERAL OVERSEAS SERVICE:

The General Overseas Service, which operates for 22¼ hours a day, (03.30–08.00, 09.15–03.00) and which can be heard at suitable listening times all over the world, is addressed to English-speaking listeners wherever they may be. All Prgr.s are in English. The Times at which the General Overseas Service is directed to various parts of the world and the appropriate wavebands are:

	Oct.-March m.b.	April-Sept. m.b.
Australia:		
06.00–08.00	31, 25	25, 19
09.15–11.30	16, 13	19, 16, 13
20.00–22.15	31	31, 25, 19
N. Zealand:		
06.00–08.00	31, 25	25, 19, 16
09.15–11.30	19, 16	19, 16, 13
20.00–22.15	31, 25	31, 25, 19, 16, 13
Japan, N. China, NW Pacific:		
09.15–13.15	41, 25, 19	41, 25, 19
So. Ea. Asia, India, Pakistan, Ceylon:		
00.00–00.30	41, 31	
01.45–02.15	41, 31	25, 19
09.15–18.15	31, 25, 19, 16, 13, 11	25, 19, 16, 13
23.00–23.15	41, 31	
E. Africa, Arabia, Cyprus, Egypt, Israel, Jordan, Lebanon, Sudan, Turkey:		
03.30–08.00	41, 31, 25, 19, 16, 13	31, 25, 19, 16, 13
09.15–21.15	25, 19, 16, 13, 11	25, 19, 13, 11
Iraq, Iran:		
03.30–08.00	31, 25, 19, 16, 13	41, 31, 25, 19
14.15–20.15	31, 25, 19, 16, 13	31, 25, 19
Malta, Greece, Italy, C. Mediterranean:		
03.30–08.00	41, 31, 25, 19	41, 31, 25, 19, 16
09.15–21.15	41, 31, 25, 19, 16	41, 31, 25, 19
C. and So. Africa:		
03.30–08.00	31, 25, 19, 16, 13	31, 25, 19, 16
09.15–22.45	25, 19, 13, 11	31, 25, 19, 13, 11
No. Africa:		
03.30–08.00	49, 41, 31, 25, 19	49, 41, 31, 25, 19
16.00–22.45	41, 31, 25, 19	49, 41, 31, 25, 19, 13
We. Africa:		
04.30–08.00	31, 25, 19, 16, 13	25, 19, 16, 13
09.15–22.45	25, 19, 13, 11	31, 25, 19, 13, 11
Gibraltar, W. Mediterranean:		
04.30–08.00	49, 41, 31, 25	49, 41, 31, 25, 19
09.15–22.45	41, 31, 25, 19	41, 31, 25, 19, 13
So. Georgia:		
22.15–00.30	25	25
Canada, USA, Mexico:		
21.15–03.00	49, 31, 25, 19	49, 31, 25, 19, 16
W. Indies, C. America, So. America, (No. of Amazon):		
20.00–23.15	31, 25, 19, 16	19, 16, 13
23.45–03.00	31, 25, 19, 16	31, 25, 19, 16, 13
So. America:		
20.00–03.00	31, 25, 19, 16	31, 25, 19, 16

N.: 00.00, 02.00, 03.00, 03.30, 04.00, 05.00, 06.00, 07.00, 09.15, 11.00, 13.00, 16.00, 18.00, 20.00, 23.00.
N. about Britain: 04.09, 06.24, 07.20, 13.09, 18.09, 23.09.
Radio Newsreel: 00.15, 06.15, 14.00, 18.20.
From the Editorials: 00.50 (ex. Sun.), 03.35, 05.09, 07.09, 09.30.
Greenwich Time Signals: 00.00, 02.00, 03.00, 05.00, 06.00, 07.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 15.30, 16.00, 17.00, 18.00, 20.00, 22.00, 23.00.
Big Ben: 14.00 (Full Strike).
ANN.: "This is the General Overseas Service of the BBC". – **INT.-SIG:** Bow Bells. –
The General Overseas Service is also rebroadcast by the BBC Far Eastern Station and by the East Mediterranean Relay. (See below).

PACIFIC SERVICE:	**Oct.-March m.b.**	**April-Sept. m.b.**
Australia, N. Zealand in English daily:		
08.00–08.45	25, 19, 13	
06.00–07.00		31, 25, 19
ASIAN SERVICE:		
China and Japan:		
11.00–11.30	19, 13	19, 13
12.00–12.45	13	41, 19, 16
South East Asia:		
10.30–13.00	13, 11	13, 11
13.15–13.45	13, 11	13, 11
India, Pakistan, Ceylon:		
13.45–15.45	16, 13, 11	16, 13, 11
Iran:		
16.15–17.00	25, 19, 16, 13	25, 19, 16, 13
East Africa*:		
14.15–15.45	13	13

10.30 Indonesian, 11.00 Japanese, 11.30 Vietnamese, 12.00 Kuoyu, 12.30 Cantonese, 12.45 Malay, 13.15 Burmese, 13.45 Sinhalese (Tues. and Fri.), Tamil (Sun. and Thurs.), Bengali (Mo. Wed. Sat.), *14.15 Urdu, *15.00 Hindi, 16.15 Persian.

ARABIC SERVICE:		**All year round**
M. East:	03.45–05.45	41, 31, 25, 19
	11.00–21.00	41, 25, 19, 16, 13, 11
Ea. Africa:	03.45–05.45	25, 19
	11.00–21.00	19, 16, 13, 11
No. Africa: / **Morocco:**	04.45–05.45	49, 41, 31
	11.00–21.00	31, 25, 16

SCE. TO E. AFRICA	**m. b.**	**SCE. TO W. AFRICA**	**m. b.**
09.45–10.00 English (Fri., Sat.)	13, 11	11.45–12.00 Hausa	13, 11
10.00–10.15 Swahili	13, 11	13.45–14.00 Hausa	13, 11
		SCE. TO W. AND EQUATORIAL AFRICA	
10.15–10.30 Somali	13, 11	19.30–20.00 French	25, 16, 13
10.30–10.45 English	13, 11	**SCE. TO MAURITIUS**	
10.45–11.00 English (exc. Sun. Thurs.)	13, 11	10.45–11.00 English and French (2nd Tues. in the month)	13, 11
14.30–14.45 Somali	13, 11		
15.45–16.00 Swahili	13, 11		
SCE. TO W. AFRICA	**m. b.**	**SCE. TO SO. AFRICA**	
11.00–11.45 English	13, 11	10.45–11.00 English (Sun. Thurs.)	13, 11

SCE. TO RHODESIA & NYASALAND:	**Oct.-March m. b.**	**April-Sept. m. b.**
09.45–10.00 English (Thurs.)	13, 11	
SCE. TO MALTA:		
09.45–10.00 Maltese (exc. Thurs., Fri., Sat.)	19, 13, 11	19, 13
SCE. TO FALKLAND ISLANDS:		
22.00–22.30 (Sun. only) English	25, 19	25, 19
SCE. TO W. INDIES:		
23.15–23.45 English daily	31, 19, 16	25, 19, 16, 13
NORTH AMERICAN SCE.		
Canada, USA, Mexico:		
11.00–11.15, 12.00–12.15	19, 16	19, 16
14.15–18.15*	16, 13, 11	25, 19

*English exc. 15.15–15.30 (Thurs., Fri.), 17.15–17.20 (Mo.–Fri.) when French.

SCE. TO ANTARCTIC:		
22.00–22.30 (Tues.) English	41, 31, 25, 19	41, 31, 25

LATIN AMERICAN SERVICE:			
C. America, S. Caribbean Area, So. Am. (No. of Amazon)			
Spanish:	01.00–02.30	31, 25, 19	25, 19
Portuguese:	23.00–00.15	25, 19, 16	25, 19, 16
Mexico:			
Spanish:	01.00–02.30	31	31
So. Am. (S. of Amazon)			
Portuguese:	23.00–00.15	25, 19, 16	25, 19, 16

Spanish:	23.00–00.30	25, 19, 16 25, 19, 16

N. in Spanish: 23.00, 00.00, 01.00, 02.00. – N. in Portuguese: 23.00, 00.00.

BBC FAR EASTERN STATION

ADDR.: Thompson Road Studios, P. O. Box 434, Singapore. Cable: Febrocast. Te.: 86321. – L.P.: Head of Service: G. A. Tree.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6110	49.10	11725	25.59	15360	19.53	21650	13.86
6175	48.58	11780	25.47	15420	19.46	21655	13.86
7120	42.13	11820	25.38	15435	19.44	21720	13.81
7135	42.05	11880	25.25	17755	16.90	21740	13.80
7260	41.32	11920	25.17	17790	16.86	25650	11.70
9560	31.38	11930	25.15	17870	16.79	25850	11.61
9625	31.17	11955	25.09	17890	16.77		
9690	30.96	15300	19.61	21485	13.96		
9725	30.85	15310	19.60	21640	13.86		

Relays of General Overseas Sce. (see page 87)	H. of tr.	m.b. All the year round
No. and Ea. China, Hongkong, Korea, Japan:	09.15–11.30	25, 19, 16
	11.30–13.45	19
So. China, Vietnam, Laos, Cambodia:	09.15–11.30	31, 25, 19, 16
	11.30–13.00	19
	13.00–13.45	31, 19
	13.45–16.50*	31, 25
Indonesia:	09.15–10.30	41, 31, 25
	11.00–11.30	41, 31, 25
Burma, Thailand:	13.00–13.45	31
	13.45–16.50*	31, 25
India, Pakistan, Ceylon:	13.00–13.45	25
	13.45–16.00	19
	16.00–16.50*	25, 19
Australia:	13.00–13.15	31, 16

*Oct.-March closes 16.35 Mo.-Fri., 17.20 Sat.

Relays of Asian Service: (see below)

	Language:		
Japan:	Japanese	11.00–11.30	25
China, Vietnam, Laos, Cambodia:	Kuoyo	12.00–12.30	31, 25, 19
	Cantonese	12.30–12.45	31, 25, 19
Vietnam, Laos, Cambodia:	Vietnamese	11.30–12.00	41, 31, 25
Indonesia:	Indonesian	10.30–11.00	41, 31, 25
Burma, Thailand:	Burmese	13.15–13.45	31, 25
India, Pakistan, Ceylon:	South Asian Reg. Langua.*	13.45–14.15	25
	Urdu	14.15–15.00	25
	Hindi	15.00–15.45	25

*Sinhalese: Tues., Fri. – Tamil: Sun., Thurs. – Bengali: Mo., Wed., Sat.

EAST MEDITERRANEAN RELAY

Relays of the BBC Arabic Service and General Overseas Service (see page 87).

	kc/s
No. Egypt/Israel/Jordan/Lebanon/Syria:	638, 719
Iraq/Persian Gulf:	7130, 11720
Israel/Jordan/Arabia:	6120
Libya/Syria:	6170
Sudan/Egypt:	9650

03.30–03.45**, 03.45–05.45*, 05.45–08.00**, 11.00–21.00*.

* Arabic. ** General Overseas Service.

CENTRAL MEDITERRANEAN RELAY (Relays of BBC Arabic Sce.

Libya/Tunisia: 1079 kc/s

VOICE OF AMERICA RELAYS IN GREAT BRITAIN BY THE BBC

ADDR.: Voice of America, Washington 25, D. C., U.S.A.

DAILY PRGR.: Blue Stars Network: 14.00–22.00.

15.00–15.30	Russian	18.30–19.00	Estonian
15.30–16.00	Ukranian	19.00–19.30	Russian
16.00–16.30	Polish	19.30–20.00	Polish
16.30–17.00	Lithuanian	20.00–20.30	Russian
17.00–17.30	Russian	20.30–21.00	Czech
17.30–18.00	Latvian	21.00–21.30	Russian
18.00–18.30	Russian	21.30–22.00	Polish

Grey Stars Network: 15.00–22.00.

14.00–14.30	Georgian	18.30–19.00	Hungarian
14.30–15.00	Armenian	19.00–19.30	Serbo-Croat
15.00–15.30	Georgian	19.30–20.00	Bulgarian
15.30–16.00	Armenian	20.00–20.30	Albanian
16.00–16.30	Russian	20.30–21.00	Rumanian
16.30–17.00	Bulgarian	21.00–21.15	Serbo-Croat
17.00–17.15	Slovene	21.15–21.30	Slovene
17.15–17.30	Greek	21.30–22.00	Hungarian
17.30–18.00	Rumanian		

ANN.: The BBC announces its relay of the Voice of America programme stating the language and relay frequencies. – V. by QSL-card.

★ GREECE ★

L.T.: GMT+2 h. – Pr.L.: Greek. – Po.: 8.000.000. – Rcvrs.: 783.495.– E.C.: 220 V., A.C., 50 c/s.

NATIONAL HELLENIC BROADCASTING INSTITUTE (Ethnikon Idhryma Radhiophonias Go. – Statutory Body of Public Law).

Fl.: By license payment and adv. – ADDR.: 4-Righillis St., Athens (K). Studios: Zappeion Bldg., Athens (K). Cable: Radiost Athens. Te.: 74151. – L.P.: Pres. of the Adm. Council: G. Sophronopoulos. Dir. Gen.: P. Spyromilios. Dep. Dir. Gen. & Dir. Adm.: A. Margaritis. Dir. Tec. V. Aslanides.

HOME SERVICE:

	kc/s	m	kW		kc/s	m	kW
Athens (Nat.)	728	412.1	150	Volos*	1484	202.2	1
Athens (2' Prgr.)	1385	217.0	50	Rhodos*	1493	201.0	5
Athens (3' Prgr.)	665	451.2	15	Patras*	1511	198.5	1
Corfu*	1007	298.0	50	Chania*	1511	198.5	5
Thessaloniki*	1043	287.6	2	Amalias*	1562	192.1	1.25
Comotini*	1403	213.8	5	*Nat. & Reg.			

NAT. PRGR.: Wi.: W.: 05.00–08.02, 10.30–22.05. Sun. 05.00–22.05. Su.: W.: 05.00–08.02, 10.30–13.15, 15.00–23.02 (Sat. 00.02). Sun.: 05.00–23.02.

N.: Wi.: 05.15, 05.45*, 07.00(W), 08.00(W), 11.00, 12.30(W), 16.00, 16.58(W), 18.00**, 20.15, 22.00. Su : 05.15, 05.25*, 07.00(W), 11.00, 12.30(W), 18.00**, 20.15, 22.00. – (*) English. + French. **) incl. Newsreel). – Wrp.: Wi.: W. 05.25, 13.30. Su.: W. 05.25, 12.45, 22.05. Sun. 11.15, 22.05.

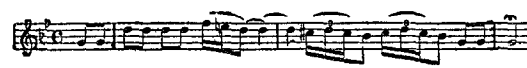
2' PRGR.: Wi.: 05.00–13.15, 15.00–21.30 (Sun.: 05.30–21.30). Su.: 05.00–13.15, 15.00–21.30 (Light Prgr. only).

3' PRGR.: D.: 17.00–22.00. (Serious musical prgr.s only).

NAT. PRGR. & REG.: D. Morning, Midday, and Evening Prgr. (Reg. and Rel. National Prgr. 728 kc/s). Approx. h. of tr.: As Nat. Prgr.

ANN.: Nat Prgr.: "Ethnikon Proghramma". 2' Prgr.: "Dhéfteron Proghramma" – 3' Prgr.: "Triton Proghramma" – Reg. Prgr.: "Edho' ...(Athinai, Kérkyra, Thessaloniki, Patras etc.)". (This is... (Athens, Corfu, Salonika, Patras etc.).

STATION-SIG.: Used by all m.w. stations of NBI: "Tsopanakos imouna" (Once I was a shepherd boy), a folk song played on native flute and sheep bells.



INT.-SIG.: "Musical Box", played on vibraphone.

FOREIGN SERVICE: Athens – 7.5/5 kW.

5960 kc/s	50.34 m	9605 kc/s	31.20 m	17745 kc/s	16.90 m
6075 –	49.58 –	11720 –	25.60 –	17780 –	16.87 –
6175 –	48.58 –	11925 –	25.15 –	21485 –	13.96 –
7140 –	42.01 –	15345 –	19.55	21565 –	13.91 –
7295 –	41.12 –	15425 –	19.44 –	25645 –	11.69 –
				25965 –	11.55 –

D.PRGR'S Nov. 1960 – Feb. 1961.

Time	Area	kc/s	Language
07.00–08.15(W) 05.45–08.15(Sun.)	Cyprus	9605/11720	Greek[1]
09.00–10.00[2]	Egypt	9605/11720	Greek
10.30–13.00	Cyprus	9605/11720	Greek
13.30–15.15	Turkey/Balkans	6075/7295	[3]
15.30–15.45	Russia	9605	Russian
16.00–17.00	Cyprus/N. East	9605/11720	Greek[4]
17.15–17.45	France/England	6075/9605	French/English
18.15–18.45	Cyprus	6075/9605	Greek
19.00–20.00	No. We. Europe	6075/9605	Greek
22.00–22.30	Mediterr.	9605/11720	Greek[5]
23.00–23.30	Mediterr.	6075/9605	Greek[6]

[1]) N. at 07.00. [2]) exc. Mo. [3]) Turkish, Serbian, Rumanian, Bulgarian, Albanian. [4]) 16.00–16.20 N. at dictation speed. [5]) N., Messages to Shipping. [6]) Rep. of 22.00–22.30 prgr. – Other prgr.'s consist of Nat. Music, Talks and Features.

ANN.: Gr.: "Edho Radhiophonikós Stathmós Athinón Vrachèon Kymàtón". – E.: "This is Radio Athens the Voice of Greece". – F.: "Ici Radio Athènes la Voix de la Grèce".

STATION SIG.: See Home Sce. – V. by letter. – PUB.: "Radhioproghramma" (weekly in Greek). No prgr.sched. free.

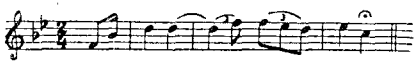
FORCES BROADCASTING STATIONS (Greek)

ATHENS (Central). – Fl.: By adv. only. – ADDR.: Radhiostathmos Enoplon Dhynameon, 136-Messoghion St., Athens: T.6. Te.: 662929. L.P.: St. Dir.: E. Sterropoulos. Dir. Tec.: G. Samoutsis.

STATIONS: 1300 kc/s 230.7 m 1 kW – 6135 kc/s 48.90 m 1 kW.

D. PRGR.: Wi.: W.: 05.00–07.30, 10.00–13.30, 15.00–22.00. Sun. 05.00–22.00. Su.: W.: 04.30–07.30, 10.00–13.30, 15.30–23.00. Sun. 04.30–23.00. N.: D.: 06.00 (Su. 05.00), 12.00, 20.00. – Nat. Music: 06.45, 10.00, 13.00, 18.50, 21.45 (Su. 22.00). – Rel. (Orthodox): Sun. 05.45–08.15.

ANN.: "Edhó Athinai, Kendrikós Radhiophonikós Stathmós Enóplon Dhynámeon Helládhos" (This is Athens, the Central Radio Station of the Greek Armed Forces).
STATION SIG.: The main motif from the march "Greece never dies", played on trumpets



V. by QSL-card or letter.

	kc/s	m	kW	H. of tr.
Florina	7284	41.18	0.5	05.00–07.00, 10.00–13.00, 15.30–20.00
Jannina	7094	42.28	0.3	05.00–07.00, 09.30–12.30, 15.30–21.00
Kavalla	1355	221.3	0.2	05.00–08.00, 10.00–13.00, 15.30–21.00
Kavalla	7214	41.58	0.5	05.00–08.00, 10.00–13.00, 15.30–21.00
Kozani	7950	37.70	0.5	05.00–07.00, 10.00–13.00, 16.00–20.30
Larissa	6752	44.43	0.5	05.00–07.00, 10.00–13.00, 16.00–21.00
Serrai	7161	41.89	0.5	05.00–07.00, 10.00–12.30, 16.00–21.30
Thessaloniki	1169	256.6	1	05.00–07.00, 10.00–13.00, 15.00–21.30
Tripolis	6003	49.97	0.5	05.00–07.00, 09.30–12.30, 15.30–21.00

PRIVATE BROADCASTING STATIONS

Chios	6590 kc/s	45.52 m	0.1	kW	17.00–20.30
Karpenission	6525 –	45.98 –	0.3	–	17.00–21.00
Megara	1186 –	253.0 –	0.06	–	05.30–07.00, 10.30–12.30
Mytilini	6240 –	48.07 –	0.1	–	17.00–20.30
Sparta	1236 –	242.7 –	0.05	–	17.30–21.00

AMERICAN FORCES RADIO SERVICE (A.F.R.S.)

Athens	1580 kc/s	190.0 m	0.25 kW	04.00–22.00*)
Heraklion	1570 –	191.1 –	0.25 –	04.00–22.00

*) N.: D.: 05.00, 07.00, 10.00, 16.00, 20.00.

VOICE OF AMERICA RADIO STATION IN GREECE

ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS:
M.W.: Thessaloniki-A 791 kc/s 379.2 m 50 kW: 10.30–13.30, 15.30–23.00.
S.W.: Thessaloniki 35 kW: 14.00–23.00.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6040	49.67	7205	41.64	9635	31.14	15330	19.57
6155	48.74	9520	31.51	11845	25.33		

DAILY PRGR.: Medium Wave:

08.15–10.30 Greek (R. Thessaloniki). Sunday only	18.30–19.00 Hungarian
	19.00–19.30 Serbo-Croat
10.30–13.30 Greek (R. Thessaloniki)	19.30–20.00 Bulgarian
	20.00–20.30 Albanian
15.30–17.00 Greek (R. Thessaloniki)	20.30–21.00 Rumanian
	21.00–21.15 Serbo-Croat
17.00–17.15 Music	21.15–22.15 Greek (R. Thessaloniki)
17.15–17.30 Greek	
17.30–18.00 Rumanian	22.15–22.30 Serbo-Croat
18.00–18.30 Bulgarian	22.30–23.00 Hungarian

Short Wave: See U.S.A.
ANN.: "This is the Voice of America Transmitter, Thessaloniki". – INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – V. by QSL-card. No return postage required.

VOICE OF AMERICA SEABORNE RADIO STATION DODECANESE ISLANDS

Seaborne Radio Station aboard U.S.C.G.C. "COURIER", currently located at the Island of Rhodes.
ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS:
M.W.: Courier-A 1259 kc/s 238.3 m 150 kW: 04.00–06.30, 16.00–22.30.
S.W.: Courier 35 kW: 04.00–06.30, 14.00–22.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6040	49.67	7265	41.29	9530	31.48	11805	25.41
7125	42.11						

DAILY PROGRAMME:

04.00–06.00 Arabic	14.30–15.00 Armenian	16.30–17.00 Turkish
06.00–06.30 English	15.00–15.30 Georgian	17.00–21.00 Arabic
14.00–14.30 English	16.00–16.30 English	21.00–22.30 English

ANN.: "This is the Voice of America Transmitter at Rhodes". – INT.-SIG.: Choir of brass playing a 10 note version of "Columbia", the Gem of the Ocean". See U.S.A. – V. by QSL-card. No return postage required.

★ GREENLAND (Danish Territory) ★

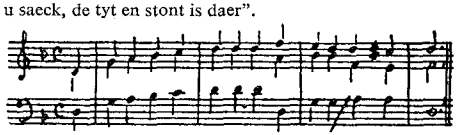
(See No. America).

★ HOLLAND ★

L.T.: GMT+1 h. – Pr.L.: Dutch. – Po.: 11.300.000. – Revrs.: 3.100.000. – E.C.: 220/380, A.C., 50 c/s.

HOME SERVICE

ADDR.: Stichting Nederlandsche Radio Unie, The Dutch Radio Union, P.O.Box 150, Hilversum. – Cable: Radiounie.
The Dutch programmes for home are provided by the following broadcasting societies:
A.V.R.O.: Algemeene Vereeniging Radio-Omroep, Headoffice Amsterdam, Keizergracht 107, Studios: Hilversum, 's-Gravelandseweg 52. – L.P.: Chairman: Jhr. Th. Röell. Secr.: H. A. Wassenbergh LL.D. Treasurer: E. A. Timmer. Man. Dir.: D. Repko.
K.R.O.: Katholieke Radio-Omroep, Emmastraat 52, Hilversum. – L.P.: Chairman: E. H. J. van Waesberge O. P. Secr.: Dr. Ir. L. J. N van der Hulst. Treasurer: C. Burger. Man. Dir.: Drs. A. J. J. v. d. Made.
N.C.R.V.: Nederlandsche Christelijke Radio Vereeniging, Schuttersweg 8, Hilversum. – L.P.: Chairman: A. B. Roosjen LL.D. Secr.: C. A. Keuning. Man. Dir.: A. H. v. d. Veen LL.D.
V.A.R.A.: Vereeniging van Arbeiders Radio-Amateurs, Heuvellaan 33, Hilversum. – L.P.: Chairman: J. A. W. Burger LL.D. Secr.-Treas.: J. W. Lebon. Prgr. Secr.: J. B. Broeksz. Secr.: J. W. Rengelink.
V.P.R.O.: Vrijzinnig Protestantse Radio-Omroep, s'-Gravelandseweg 65, Hilversum. – L.P.: Chairman: Dr. J. A. de Koning. Secr.: Dr. E. D. Spelberg. Treasurer: Ir. K. Kooy.
I.K.O.R.: Inter-Kerkelijk Overleg in Radio-aangelegenheden (Radio and Television Commission of the Ecumenical Council of Churches; no broadcasting society), Borneolaan 27, Hilversum. – L.P.: Chairman: Mr. H. Mulderije; Secr.: Rev. L. H. Ruitenberg; Treasurer: H. J. Timmer; Man. Dir.: J. W. de Haan. Dir. TV.-sce.: Rev. C. M. de Vries.
Central Address for Prgr. Publications: Centraal Bureau voor den Omroep in Nederland, Hilversum, P.O. Box. 52
BOARD OF THE NEDERLANDSCHE RADIO-UNIE: Chairman: A. B. Roosjen LL.D. Secr.: J. W. Lebon. Treasurer: Jhr. Th. Röell. Members: Dr. J. A. de Koning, J. B. Broeksz, Drs. A. J. J. v. d. Made, D. Repko, E. H. J. van Waesberge O.P., A. H. v. d. Veen LL.D.
STATIONS:
Hilversum I: 746 kc/s 402.1 m 120 kW – II: 1007 kc/s 297.9 m 120 kW.
Rel.: Hengelo, Hoogezand, Hulsberg: 1594 kc/s 188.2 m 5 kW.
FM: Hoogezand: 91.8, 94.9 mc/s 15 kW – Hulsberg: 95.1, 97.5 mc/s 5 kW – Irnsum: 88.2, 97.2 mc/s 5 kW – Mierlo: 93.5, 99.9 mc/s 15 kW – Markelo: 96.2, 98.3 mc/s 50 kW.
D.PRGR.: Hilversum I & II: W. 06.00–23.00. Sun. 07.00–23.00.
N.: 1st and 3rd quarter: Hilversum I: D.: 06.00(W), 07.00, 12.00, 17.00(W), 18.45 (Sun.), 21.30, 22.55. – Hilversum II: D.: 06.00 (W), 07.00, 12.00, 16.50 (Sun.), 18.00 (W), 21.30, 22.55.
2nd and 4th quarter: Hilversum I as Hilversum II – Hilversum II as Hilversum I.
INT.-SIG.: A tune from "Valerius Gedenckklank": "O Nederland let op u saeck, de tyt en stont is daer".



V. by QSL-folder.

RADIO NEDERLAND WERELDOMROEP (non-comm.)

FI.: By license payments – ADDR.: Radio Nederland, P.O. Box 222, Hilversum. Main-Office: 's-Gravelandseweg 76, Hilversum. Cable: "Mundivox". Te.: 02950. – L.P.: Dir. Gen.: L. F. Tijmstra. Deputy Dir. Gen.: C. J. Strop. Directors: Central Prgr. Sce.: J. W. Acda. N. Sce.: M. L. Snyders. Dutch Sce.: F. Thors. International Sce.: H. J. P. J. van Eijndhoven. Transcription Sce.: Lod. Prins. Dir. Tec.: V. J. de Grijs. Producer "Happy Station" prgr.: Edw. Startz.
STATIONS: Lopik WO1 50 kW; WO2, 3, 4 100 kW; WO5 10 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
26040	11.51	21480	13.96	15445	19.43	11935	25.14	9730	30.83
25610	11.71	17840	16.82	15425	19.45	11915	25.18	9715	30.88
						11800	25.42		
21715	13.82	17810	16.84	15365	19.52	11755	25.52	9590	31.28
								6085	49.30
21665	13.84	17800	16.85	15220	19.71	11730	25.58	6025	49.79
21565	13.91	17775	16.88	11950	25.10	9745	30.78	6020	49.83

OPERATION SCHEDULE: Spec. abbrev.: N.An. = Netherlands Antilles. N.G. = Netherlands New Guinea. Ind. = Indonesia. Su. = Netherlands Guiana (Surinam).
Wavelengths between brackets are possible substitutes.

Languages, h. of tr.	Areas served	1. Per.* m.b.	2. Per.** m.b.
Afrikaans:			
W. 15.00–15.50	So.Af.	11, 13 (16)	11, 13 (16)

Holland

Arabic:				
D.	16.00–17.50	M.E., Eu.	19, 25, 49	19, 25, 49 (16)
	18.00–19.50	No.Af.	25, 31	19, 25
Dutch:				
D.	01.30–03.20[1])	No.Am.	31, 49	25, 31
D.	06.00–07.00	N.Z.	25, 31	25, 31
W.	10.00–10.20	Su.	11, 13	11, 13 (16)
D.	11.00–12.50	N.G., Au.	11, 13 (16)	13, 19 (16)
W.	11.30–11.50	N.An.	11, 13	11, 13
D.	13.00–15.05[2])	So.Ea.As., Eu.	13, 19, 49 (16)	13, 19, 49 (16)
D.	18.00–19.50[3])	Af., Eu.	16, 19, 49 (25)	16, 19, 49
	20.30–20.50[4])	N.G., Ea.Au.	25, 31	19, 25
	22.30–22.50[4])	Ind., We.Au.	25, 31, 49	25, 31
D.	23.00–01.20	C.Am., So.Am., Eu.	25, 31, 49	19, 25, 49
Sun.	08.30–10.20[5])	Af., So.As., Au.	11, 13, 49	11, 13
Sun.	21.00–22.20[5])	No.Am.	25, 31	19, 25
English:				
	01.30–01.20[6])	No.Am., (N.Z.**)	31, 49	25, 49 (31)
W.	10.00–10.50	Au., N.Z., F.E.	13, 16	13, 16
W.	14.00–14.50	Af., So.As.	11, 19 (13)	13, 16 (11)
W.	21.15–22.05	No.Am., Eu.	25, 31, 49	19, 25, 49
Indonesian:				
D.	12.30–13.30	Ind., Eu.	13, 19, 49	13, 16, 49
Spanish:				
	00.30–01.20[6])	So.Am. (No.)	25, 31	25, 31
	03.00–03.50[6])	C.Am.	31, 49	31, 49
W.	20.15–21.05	Sp., No.Af.	31, 49	31, 49
W.	23.30–00.20	So.Am. (So.)	19, 25	19, 25
Happy Station:				
Sun.	10.30–12.00	F.E., Au., N.Z., Eu.	13, 16, 49	13, 16, 49
Sun.	16.00–17.30	Af., So.As., Eu.	13, 19, 49	13, 19, 49
Sun.	21.00–22.30	So.Am., Sp.	19, 25, 49	19, 25, 49
Mo.	02.00–03.30	No.Am. (N.Z.**)	31, 49	25, 49 (31)

[1]) Mo. 03.55 [2]) Sun. 15.50 [3]) Sun. 20.25 [4]) D. exc. Sat. [5]) Rel. Prgr. [6]) D. exc. Mo. * Nov./Apr. ** May/Oct.

PROGRAMME SCHEDULE:

NATIONAL MUSIC:
The Amsterdam Concertgebouw Orchestra: Thurs.: 11.25–12.15, 13.25–14.15, 18.25–19.15, 23.25–00.15. Fri. 01.55–02.45 in **Dutch, English, Spanish**; Sun. 12.40–13.10 in **Indonesian.** – **The Netherlands Composers:** Tues. between 15.11–15.30 in **Afrikaans**; prgrs. in **Arabic** on Dutch music are broadcast occas. 1st Mo./Tues. of each month 10.12–10.32, 14.12–14.32, 21.27–21.47, 01.42–02.02 in **English**; 20.27–20.47, 00.12–00.32, 03.12–03.32 in **Spanish.**

NEWS, COMM.: Afrikaans: 15.01(W). **Arabic:** D.: 17.00, 18.00. **Dutch:** 06.00(D), 10.00(W), 10.30(W), 11.00(D), 14.40(W), 15.00(Sun.), 18.00(D), 20.30(D. exc. Sat.), 22.30(D. exc. Sat.), 23.00(D), 01.30(D). **English:** 01.30(D. exc. Mo.), 10.00(W), 21.15(W). **Indonesian:** 12.32(D). **Spanish:** 20.15(W), 00.00(D. exc. Mo.), 03.00(D. exc. Mo.).

LISTENERS' REQUEST PRGR.: Afrikaans: Sa. 15.11. **Arabic:** Fri. 18.05. **Dutch:** Fri. 11.30, 13.30, 18.30, Sat. 00.00, 02.00. **English:** Thurs.: 10.12, 14.12, 21.27. Fri. 01.42. **Indonesian:** Sat. 12.50. **Spanish:** Thurs. 20.27. Fri.: 00.12, 03.12.

MAILBAG: Afrikaans: Sat. 15.11. **Arabic:** Fri. 18.05. **Dutch:** Fri. (fortnightly): 12.00, 14.00, 19.00. Sat. (fortnightly): 00.30, 02.30. **English:** Wed. (fortnightly): 10.32, 14.32, 21.47. Thurs. (fortnightly): 02.02. **Indonesian:** Sun. 13.10. **Spanish:** Tues. (fortnightly) 20.48. Wed. (fortnightly): 00.33, 03.33.

DX-PROGRAMMES: English: Tues.: 10.12, 14.12, 21.47. Wed. 01.42.

PRODUCTION "HAPPY STATION": The 4 "Happy Station" Sun. prgrs., 3 in **English** and 1 in **Spanish** and **Portuguese**, bring a wide range of carefully selected music catering for all tastes. Short features of universal interest, descriptive commentaries and educational quizzes supplement the 90 min. programmes. In addition each transmission carries an international "mailbag" with calls to all parts of the globe. 1961 is the 33nd year of the "Happy Station"s worldwide broadcasting. The "Happy Station" prgr. **EVERY SUNDAY:** (for m.b. see operating sched.).

10.30–12.00 F.E., An., N.Z., Eu. 21.00–22.30 So.Am., Sp.
16.00–17.30 Ea.As., Af., Eu. Mo. 02.00–03.30 No.Am., Ca., N.Z.

ANN.: Dutch: "Hier Radio Nederland in Hilversum". **E.:** "This is the International Service of Radio Nederland in Hilversum, Holland". **Ind.:** "Disini Hilversum Siaran Indonesia Radio Nederland". **Sp.:** "Aqui Radio Nederland de Hilversum, Holanda". **Arabic:** "Huna *Hilversum – al idha'atu'l hulandiya bi'l-lughati'l-Arabiya*".

GENERAL INT.-SIG.: Old Dutch folk song called: "Merk toch hoe sterck" played on carillon or celeste on all frequencies.

DUTCH WORLD BROADCASTING SYSTEM

RADIO NEDERLAND

HILVERSUM - HOLLAND

daily broadcasts in

AFRIKAANS
ARABIC
DUTCH
ENGLISH
INDONESIAN
SPANISH

news, commentaries, actualities, feature-programmes, music – 100 K/W transmitters - 11, 13, 16, 19, 25, 31, 49 metre bands – programme bulletins free on application.

Radio stations the world over are invited to apply to our

TRANSCRIPTION SERVICE for free recordings of

- serious and light music
- entertainment-programmes
- feature-spots, coverages
- topical talks, interviews

V. by QSL-card. – PUB.: Prgr. bulletin in Dutch, English, Spanish, Arabic, Afrikaans. – A pamphlet on improving s.w. reception in Dutch, English, Spanish, Indonesian. Also a diagram for building a s.w. converter in Dutch, English. All the pub. are sent free of charge on application.
TRANSCRIPTION SERVICE. A free sce. to foreign sts. Issues complete prgrs. about Holland and Dutch life both informative and musical, and adapted to suit the requirements of the areas served.

★ HUNGARY ★

L.T.: GMT+1 h. – Pr.L.: Hungarian. – Po.: 10.000.000. – Rcvrs.: 2.200.000. – E.C.: 110/220 V., A.C., 50 c/s.

MAGYAR RADIO ES TELEVIZIO (Go.)

ADDR.: Brody Sandor-S.u. 5–7, Budapest VIII. Cable: Magyarrádió.
L.P.: Pres. & Gen. Mgr.: L. Gács. Vice-Pres.: I. Hárs, dr. Dir. Prgr.: Dr. K. Kiss. Dir. Adm.: G. Mike. Dir. Tec.: L. Hermann. Dir. Foreign Rel.: Mrs. M. Solymár, dr.

HOME SERVICE

	kc/s	m	kW	H. of tr.
Kossuth, Budapest	539	556.5	135	W. 03.30–23.30 Sun. 05.00–23.30
Petöfi II, Budapest	872	344.0	20/50	05.00–07.10
Petöfi I, Szolnok	1187	252.7	135	12.50–22.00
Balatonszabadi	1250	240.0	135	
Nyiregyháza	1340	223.8	25	17.00–18.00
Györ	1340	223.8	0.4	17.00–18.00
Szombathely	1340	223.8	25	Sun. 08.00–09.00
Pécs	1340	223.8	15	D. 15.30–18.00
Szolnok	1340	223.8	0.4	D. 16.00–17.00
Miskolc	1594	189.0	15	D. 17.00–18.00
Magyaróvár	1594	189.0	0.4	Sun. 08.00–09.00

R. Kossuth: N., Wrp.: W. 03.30, 04.20, 06.00, 09.00, 11.00, 14.00, 16.00, 19.00, 21.00, 23.00. Sun.: 05.00, 07.00, 11.00, 16.00, 19.00, 21.00, 23.00.
R. Petöfi: N.: W. 07.00, 15.00, 17.00, 18.00, 20.00, 22.00. Sun. 22.00. – FM: 89.2 mc/s 3 kW: D. 17.00–21.00.
ANN.: "Rádió Kossuth, Budapest" – "Rádió Petöfi, Budapest".

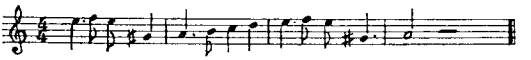
FOREIGN SERVICE

STATIONS: 100 kW.
1250 kc/s 240.0 m – 6236 kc/s 48.08 m – 7220 kc/s 41.45 m 9833 kc/s 30.51 m – 11910 kc/s 25.19 m – 15415 kc/s 19.46 m – 17795 kc/s 16.86 m

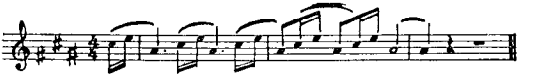
TO EUROPE:	6/11–4/3 kc/s	5/3–6/5 kc/s	7/5–2/9 kc/s
English:			
20.00–20.30	7220, 9833	9833, 11910	9833, 11910
22.00–22.30	6236, 7220, 9833	7220, 9833, 11910	7220, 9833, 11910
French			
13.30–14.00*	9833, 11910, 15415	7220, 9833, 11910	9833, 11910
18.00–18.30	6236, 7220	7220, 9833	7220, 9833
19.30–20.00	6236, 7220	7220, 9833	7220, 9833
German			
18.00–18.30	1250	1250	1250
18.30–19.00	1250, 6236	1250, 7220	1250, 7220
20.00–20.30	1250, 6236	1250, 7220	1250, 7220
Greek			
11.45-12.00(W)	9833	9833	9833
12.00–13.00*	9833, 11910	9833, 11910	9833, 11910
15.00–15.30**	9833	9833	9833
17.00–17.30	1250, 6236, 9833	1250, 7220, 9833, 11910	1250, 9833, 11910
19.30–20.00	1250, 9833	1250, 11910	1250, 11910
Hungarian			
14.00–16.00*	1250, 9833, 11910, 15415	1250, 7220, 9833, 11910	1250, 9833, 11910 15415, 17795
19.00–19.30 } 21.00–22.00 }	1250, 6236, 7220, 9833	1250, 7220, 9833, 11910	1250, 7220, 9833, 11910
22.00–23.00[1])	1250	1250	1250
Italian			
17.30–18.00	1250, 6236, 7220	1250, 7220, 11910	1250, 7220, 11910
20.30–21.00	1250, 6236	1250, 7220	1250, 7220
Spanish			
20.30–21.00 } 22.30–23.00 }	7220, 9833	9833, 11910	9833, 11910
TO NEAR EAST			
Arabic	kc/s	kc/s	kc/s
16.00–16.30	9833, 11910	9833, 11910	11910, 15415, 17795
18.00–18.30	11910	11910, 17795	11910, 17795
Turkish			
10.30–12.00*	9833, 11910, 15415	9833, 11910, 15415	9833, 11910, 15415
14.30–15.00**	9833	9833	9833
16.30–17.00	1250, 6236, 9833, 11910	1250, 7220, 9833, 11910	1250, 9833, 11910, 15415
18.30–19.00	7220, 9833	9833, 11910	9833, 11910

TO NO. AMERICA	6/11–4/3 kc/s	5/3–6/5 kc/s	7/5–2/9 kc/s
English			
00.00–01.00 } 03.30–04.30 }	7220, 9833, 11910	7220, 9833, 11910	9833, 11910, 7220, 9833, 11910
Hungarian			
01.00–01.30 } 02.00–03.00 }	7220, 9833, 11910	7220, 9833, 11910	9833, 11910, 15415
03.00–03.30[2]) } 04.30–05.00 }	7220, 9833, 11910	7220, 9833, 11910	7220, 9833, 11910
TO C. AMERICA			
Spanish			
01.30–02.00	7220, 9833, 11910	7220, 9833, 11910	9833, 11910, 15415
TO SO. AMERICA			
Hungarian			
23.30–24.00	9833, 11910	9833, 11910, 15415, 17795	11910, 15415, 17795
Spanish			
23.00–23.30	9833, 11910	9833, 11910, 15415, 17795	11910, 15415, 17795

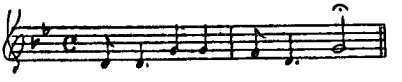
*) Sun. only. **) Sat. only. [1]) Sun. & Wed. only. [2]) Musical prgr.
ANN.: E.: "This is Budapest, Hungary". F.: "Ici Budapest".



R. Petöfi:



Foreign Service: Old Hungarian Folksong "From the Tisza, past the Danube":



V. by QSL-card and letter. – PUB.: "Rádió és Televizió Ujság" (weekly).

★ ICELAND ★

L.T.: GMT÷1 h. (Su.=GMT). – Pr.L.: Icelandic. – Po.: 170.000. – Rcvrs.: 47.000. – E.C.: 220 V., A.C., 50 c/s.

ICELAND STATE BROADCAST SERVICE – RIKISUTVARPID (Go.)

ADDR.: P. O. Box 120, Reykjavik. – Cable: Utvarp.
L.P.: Dir. Gen.: V. Th. Gislason. Chairman of Prgr.: Council: B. Groendal. Dir. Adm.: S. Thórdarson. Dir. Prgr.: A. Björnsson. Dir. Music: A. Kristjánsson. Dir. Drama: Th. Ø. Stephensen. Dir. News Sce.: J. Magnusson. Dir. Tec.: St. Bjarnason.

HOME SERVICE:
09.00–11.00, 13.00–15.00, 16.00–17.30, 19.00–01.00.

Reykjavik TFU	182 kc/s	1648	m	100	kW		
Eidar	611	–	491	–	5	– [1])	N.: 09.30, 13.25, 16.55, 21.00, 23.00
Höfn	665	–	451.2	–	1	– [1])	
Akureyri	737	–	407.1	–	5	– [1])	
Nordfjördur	1484	–	202.2	–	0.03	– [1])	

FM: Reykjavik 94 mc/s 0.6 kW[1]. [1]=Rel. TFU.

FOREIGN SERVICE in Icelandic:
Reykjavik TFJ 11780 kc/s 25.47 m 7 kW: D. 21.00–22.00, Sun. also 13.15–14.15 to Eu.
ANN.: "Utvarp Reykjavik". – INT.-SIG.: Home Sce.:

Foreign Sce.:

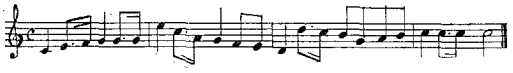
V. by QSL-card. R.p.
ARMED FORCES TELEVISION SCE.: See USA.

★ IRELAND ★

L.T.: GMT (Su. GMT+1 h.). – Pr.L.: Irish, English. – Po.: 2.898.264. Rcvrs.: 494.444. – E.C.: 220 V., A.C., 50 c/s.

RADIO EIREANN (Go.)

FI.: By State, licenses and adv. AD.: 16¼ h. per week.
ADDR.: Gen. Post Office, Dublin. Cable: Radioeireann. Te.: 42.981.
L.P.: Chairman: E. Andrews. Dir. Gen.: vacant. Contr. Prgr's: R. Farren. Dir. Tec.: J. O'Keeffe. Chief TV Eng.: P. G. Parker.
HOME SCE.: W.: 07.55–09.15, 13.00–15.00, 17.00–23.30. Sun.: 10.25–11.15, 12.30–23.30.
Athlone 566 kc/s 530 m 100 kW – Dublin 1250 kc/s 240 m 5 kW
Cork 1250 kc/s 240 m 5 kW
N.: English: 08.00(W), 09.00(W), 13.30, 18.30, 22.15. – Irish: 18.01, 22.00(W). – Wrp.: English: 07.55(W), 09.00(W), 10.25(S), 13.30, 17.55, 18.30, 22.15. Irish: 18.01, 22.00(W). – Irish Music: Sat. & Sun. 22.30–23.00. – Rel.: Sun.: 10.30, 11.30.
ANN.: "Radio Eireann". – INT.-SIG.: Celeste and Harp playing 4 bars of Irish Air "O Donnell Abu". – V. by letter.



★ ITALY ★

L.T.: GMT+1 h. – Pr.L.: Italian. – Po.: 51.000.000. – Rcvrs.: 7.897.632. – E.C.: 125/220 V., A.C., 50 c/s.

RAI – RADIOTELEVISIONE ITALIANA

(State Service granted by public act to RAI).
FI.: By license and advertisement payments. – AD.: 5% of broadc.-time for radio, 15 min. a day for television.
ADDR.: Via del Babuino 9, Roma. Cable: "Raidirro". Te.: 664.
L.P.: Pres.: Prof. Antonio Carelli. Vice Pres.: Hon. Luigi Bennani. Man. Dir.: Ing. Marcello Rodino. Dir. Gen.: Dr. Rodolfo Arata. Vice Dir. Gen.: Dr. Marcello Bernardi. Gen. Secretary (Dir. Foreign Rel.): Dr. Gian Franco Zaffrani. Dir. Adm.: Dr. Bruno Vasari. Dir. Prgr. (Radio): Maestro Giulio Razzi. Dir. Prgr. (TV): Dr. Sergio Pugliese. Dir. Radio and TV Inf. Services: Dr. Antonio Piccone Stella. Tec. Dir. (Radio): Eng. Gino Castelnuovo. Dir. Tec. (TV): Eng. Sergio Bertolotti. Co. Dir. Gen. Aff.: Dr. Luigi Beretta, Dr. Aldo Passante. Chief Pers.: Dr. Marcello Severati. Directors "Radiocorriere": Eng. Vittorio Malinverni, Dr. Eugenio Bertuetti.
HOME SCE.: No powers indicated owing to pending changes.

MEDIUM Wave	Nat. prgr. kc/s	2 prgr. kc/s	3 prgr. kc/s		Nat. prgr. kc/s	2 prgr. kc/s	3 prgr. kc/s
Aosta 1)		1115		Pisa 8)		1115	1594
Alessandria 1)		1448		Siena 8)		1448	
Biella 1)		*1448*		*Perugia 9)*	*1578*	*1448*	
Cuneo 1)		1448		Terni 9)	1578	1484	
Torino 1)	656	1448	1367	Ancona 10)	1578	1448	
Como 2)		1448		Ascoli P. 10)		1448	
Milano 2)	899	1034	1367	Roma 11)	1331	845	1367
Sondrio 2)		1448		Aquila 12)	1578	1484	
Bolzano 3)	656	1484	1594	Campobasso 12)		1448	
Bressanone 3)		1484	1594	Pescara 12)	1331	1034	
Brunico 3)		1484	1594	Teramo 12)		1448	
Merano 3)		1484	1594	Avellino 13)		1484	
Trento 3)	1331	1448	1367	Benevento 13)		1448	
Belluno 4)		1448		Napoli 13)	656	1034	1367
Cortina 4)		1448		Salerno 13)		1448	
Venezia 4)	656	1034	1367	Bari 14)	1331	1115	1367
Verona 4)	1578	1448	1367	Brindisi 14)	1578		
Vicenza 4)		1484		Foggia 14)	1578	1448	
Gorizia 5)		*1484*		*Lecce 14)*	1578	1448	
Trieste 5)	818	1115	1594	Taranto 14)	1578	1448	
Udine 5)	1331	1448		Potenza 15)	1578	1448	
Trieste A 5) (autonoma in Sloveno)	980			Catanzaro 16)	1578	1448	
				Cosenza 16)	1578	1484	
Genova 6)	1331	1034	1367	Reggio C 16)	1331		
La Spezia 6)	1578			Agrigento 17)		1448	
Savona 6)		1484		Catania 17)	1331	1448	1367
S. Remo 6)		1034		Caltanissetta 17)	566	1448	
Bologna 7)	1331	1115	1367	Messina 17)		1115	1367
Arezzo 8)		1484		Palermo 17)	*1331*	*1448*	*1367*
Carrara 8)	1578			Cagliari 18)	1061	1448	
Firenze 8)	656	1448	1367	Nuoro 18)	1578	1484	
Livorno 8)	1578		1367	Sassari 18)	1578	1448	

FM: 192 st. (Nat. prgr.), 192 st. (prgr. 2), 192 st. (prgr. 3).
1) Piemonte. 2) Lombardia. 3) Trentino Alto Adige. 4) Veneto. 5) Venezia, Giulia, Friuli. 6) Liguria. 7) Emilia, Romagna. 8) Toscana. 9) Umbria. 10) Marche. 11) Lazio. 12) Abruzzi, Molise. 13) Campania. 14) Puglia. 15) Basilicata. 16) Calabria. 17) Sicilia. 18) Sardegna.

Short Waves:
Nat. Prgr. Caltanissetta 6060 kc/s 49.50 m – *9515 kc/s 31.15 m.*
2. Prgr. Caltanissetta 7175 kc/s 41.81 m. – 3. Prgr. Roma 3995 kc/s 75.09 m.
National Prgr.: W.: 05.30–08.00, 10.00–23.00. Sun. 05.40–23.00.
N., Wrp.: 06.00(W), 07.00, 12.00, 13.00, 16.00(W), 19.30, 22.15, 23.00.
Rel.: Sun. 06.45 (Evangelistic), Sun. 08.30 (Mass from R. Vaticana).
Folklore Music: 16.40. – L.L.: 05.35 (Spanish: Mo., Wed., Fri.; Portuguese: Tues., Thurs., Sat.), 16.20 (French: Mo., Thurs.; English: Tues., Fri.; German: Wed., Sat.).
2nd Prgr.: W. 08.00–22.00, Sun. 06.50–22.00.
N., Wrp.: 08.00, 12.30, 13.30(W), 14.30(W), 17.30(W), 19.00, 20.30, 22.00.
3rd Prgr.: W. 16.00–23.00. Sun. 15.00–23.00. – N.: 20.00.
3rd Network (on same frequencies as 3rd prgr.): D. 07.00–07.50 (Broadcasts for Tourists in French, German, English), 09.00–13.15. (Folklore Music: D. 12.25).
Night Prgr. (Notturno dall'Italia) on *845, 9515* kc/s: *22.05–05.30.* Music followed by N. in Italian, French, English, German.

FOREIGN SERVICE

RADIO ROMA: 50/60/100 kW.
ADDR.: Casella Postale 320, Roma. Te.: 489.171.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
566	530.0	7275	41.24	11805	25.41	17740	16.91
845	355.0	7290	41.15	11810	25.40	17770	16.88
1115	269.0	9515	31.53	11905	25.20	17800	16.85
5960	50.34	9575	31.33	15120	19.84	21560	13.91
6010	49.92	9630	31.15	15325	19.58		
6060	49.50	9710	30.90	15400	19.48		

EUROPEAN SERVICE "Rome calling Europe"

Albanian	kc/s	**Polish**	kc/s
13.30–13.45	7290, 9575	13.00–13.15	6010, 9630, 11810
17.45–18.00	6010, 9575	17.35–17.45	6010, 9575
Bulgarian		20.10–20.25	5960, 7275
20.55–21.15	6010, 7290, 9575	**Portuguese**	
Czech		21.35–22.00	5960, 7275
13.15–13.30	6010, 9630, 11810	**Rumanian**	
18.25–18.35	5960, 7275, 9710	13.00–13.15	7290, 9575
20.25–20.40	5960, 7275	20.35–20.55	6010, 7290, 9575
Danish/Swedish*		**Russian**	
17.35–17.55	5960, 7275, 9710	03.30–03.45	6010, 7275, 9575, 9630, 11810
English		14.05–14.20	9575, 11905
18.20–18.40	6010, 9575	21.15–21.30	5960, 7275
French		**Serbian**	
18.00–18.20	6010, 9575	10.10–10.25	7275, 9575
German		21.15–21.35	6010, 7290, 9575
10.25–10.40	7275, 9575	**Slovak**	
13.30–13.45	6010, 9630, 11810	13.45–14.00	6010, 9630, 11810
18.10–18.25	5960, 7275, 9710, for Austria	21.00–21.15	5960, 7275
20.40–21.00	5960, 7275	**Slovene**	
Greek		13.45–14.00	7290, 9575
19.05–19.25	5960, 7275	**Spanish**	
Hungarian		22.00–22.25	5960, 7275
13.15–13.30	7290, 9575	**Turkish**	
21.35–21.55	6010, 7290, 9575	19.25–19.50	5960, 7275
Italian		**Ukrainian**	
15.35–15.55	6010, 7290, 11810	18.40–19.00	6010, 9575
17.35–18.10	(Sun.) 5960, 7275, 9710	**Belgian/Esperanto/English & French****	
Lithuanian		17.55–18.10	5960, 7275, 9710
19.50–20.10	5960, 7275		

* **Danish:** Tues., Thurs., Sat.; **Swedish:** Mo., Wed., Fri.; ** For Belgium (F.) Sat.: **Esperanto:** Tues., Wed., Fri.; **English & French:** Mo., Thurs.

GENERAL OVERSEAS SERVICE AU, NZ, F.EAST	
English	kc/s
09.00–09.40	15325, 17800, 21560
Italian	
06.50–07.50	11905, 15325, 17740 17800, 21560
20.00–20.30	9575, 9710, 11810
22.00–22.25	9575, 9710, 11810
SO.EA.ASIA & THE FAR EAST	
Chinese	
09.45–10.05	11905, 17800
English, French	
10.45–11.25	15400, 17800, 21560
Indonesian	
09.45–10.05	15325, 17770, 21560
Japanese	
10.10–10.40	11905, 17800, 21560

SO. ASIA	
	kc/s
Hindi	15.15–15.30
Urdu	15400, 17770,
Bengali	14.50–15.05 21560
	15.05–15.15
AFRICA & NEAR EAST	
Arabic	
06.30–06.45	*6010, 9575, 11905,* 15400, 17800
12.25–12.55	9710, 11810, 15325, 15400, 17800
14.10–14.25	566, 1115, 9515
19.05–19.55	6010, 9575, 11810
English	
09.20–09.40	11905, 15120

French kc/s
09.00–09.20 11095, 15120
Italian
10.45–11.25 15325, 17800
16.00–17.30 9575, 11810, 15325, 17770, 21560
Persian
14.25–14.45 11905, 17765

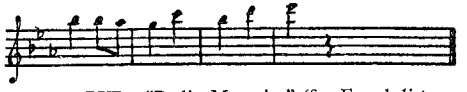
SOUTH AFRICA
English
15.35–15.55 17770, 21560
Somali
14.50–15.30 15325, 17800

C. & S. AMERICA
Italian
18.40–19.00 15325, 17770, 21560
Portuguese
00.30–00.50 9630, 9710, 11810
Spanish kc/s
00.50–01.10 9630, 9710, 11810
03.05–03.25 9630, 9710, 11805
N. AMERICA
English
00.30–00.50 9575, 11905
03.05–03.25 9575, 11905
French
00.50–01.10 9575, 11905
Italian
22.30–00.30 9575, 9630, 9710, 11810, 11905
01.15–03.05 9575, 9630, 9710, 11905, 11810
SPECIAL PRGR'S ITALIAN
Press Review or Dictation News:
07.50–08.55*11905, 15325, 17740 17800, 21560
14.05–14.45** 15325, 17800, 21560

* for Australia/New Zealand and F. East.
** for No. & So. America.
ANN.: "RAI – Radiotelevisione Italiana – Stazioni del (Programma Nazionale, Secondo Programma, Terzo Programma)". Night Prgr.: "RAI – Radiotelevisione Italiana – Stazione di Roma 2 che trasmette sulla lunghezza d'onda di m. 355 pari a kc/s 845". – "Notturno dall' Italia". – **INT.-SIG.:** Bird chirping. – **V.** by QSL-card.

★ LUXEMBOURG ★

L.T.: GMT+1 h. – **Pr.L.:** Luxembourgian, French, Flemish, English, German. – **Po.:** 322.000. – **Rcvrs.:** 96.559. – **E.C.:** 110/220 V., A.C., 50, 60 c/s; 110/220 V., D.C.
RADIO LUXEMBOURG (Comm.)
FI.: By adv. – **ADDR.:** Compagnie Luxembourgeoise de Télédiffusion, Villa Louvigny, Luxembourg. **Cable:** Radio Luxembourg. **Te.:** 25881. **L.P.:** Dir. Gen.: M. Felten. Dir. Prgr.: J. Luc. Secr. Gen.: G. Graas.
STATIONS: R. Luxembourg I and II:
I 233 kc/s 1287 m 500 kW – 6090 kc/s 49.26 m 50 kW* d.
II 1439 – 208 – 350 – – 15350 – 19.54 – 5 – d.
FM: 92.5 mc/s 15 kW. *Relay 1439 kc/s.
HOME SERVICE IN LUXEMBOURGIAN:
On 92 mc/s: W.: 11.30–12.30, 17.30–20.30. Sun. 09.00–20.30.
N., Comm.: D. 11.45, Sun. 17.40, W. 18.25. – **Nat. Music:** Sun., Thurs. 20.00–20.30, Sat. 18.00–18.25.
On 1439 kc/s: N., Comm.: D. 17.40.
FOREIGN SERVICE:
On 233/15350 kc/s in French: D. 04.40(Sun. 05.59, Mo. 04.49)–24.00. **N., Comm.:** W.: 05.30, 06.00, 06.30, 07.00, 07.30, 08.00, 09.00, 10.00, 11.23, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.15, 21.26, 23.00, 23.55. Sun.: 06.30, 07.00, 08.00, 09.00, 10.55, 12.00, 18.15, 20.50, 23.00, 23.55. – **Rel. Prgrs.: French:** Tues.–Sat. 04.40–04.59.
On 1439/6090 kc/s in Flemish, German, English:
Flemish: 04.45–12.00(Sun. 13.00). – **N., Comm.:** W. 05.55, D. 06.45, Sun. 07.50, Sat. 11.43, Mo.–Fri. 11.51, Sat. 11.56, Sun. 12.00.
German: D. 12.00(Sun. 13.00)–17.30. – **N.:** W.: 13.00, 16.55.
English: 18.00–23.30.
Rel. Prgrs. (on 1439/6090 kc/s): German: Sun. 04.45–05.45, Mo. 04.45–05.25, Tues. 04.45–05.20, Wed. 04.45–05.55, Thurs. 04.45–05.40, Fri., Sat. 04.45–05.20. **Flemish:** Sun. 05.45. **Polish:** Mo. 05.25–05.45. **French:** Mo. 05.45–05.55, Tues., Thurs., Sat. 05.40–05.55, Fri. 05.20–05.35. **Russian:** Tues. 05.20–05.40. **Hungarian:** Sat. 05.20–05.40.
ANN.: F.: "Ici R. Luxembourg". **E.:** "Here R. Luxembourg". **Fl.:** "Hier is R. Luxembourg". **G.:** "Hier R. Luxembourg". **Luxembourgian:** "Hei ass R. Letzeburg".
INT.-SIG.: Melody played on piano: A Luxembourgian popular song.



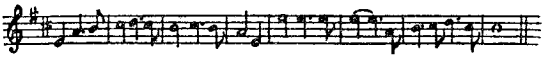
V. by letter. – **PUB.:** "Radio Magazine" (for French listeners) and "Notre Radio" (for Belgian listeners).

★ MALTA (British) ★

L.T.: GMT+1 h. – **Pr.L.:** English, Maltese. – **Po.:** 328.012. – **Rcvrs.:** 49.000. – **E.C.:** 240 V., A.C., 50 c/s.
REDIFFUSION (MALTA) LTD. (Pr. Comm.)
FI.: From wired subscribers and adv. – **AD.:** Mainly 2' prgr.
ADDR.: Rediffusion House, St. Luke's Rd., Guardamangia. **Cable:** Rediffusion. **Te.:** Central 25051. – **L.P.:** Gen. Mgr.: E. A. Hamilton-Hill. Dir. Prgr.: G. Binns. Dir. Tec.: F. R. Yardley, A.M.I.R.E.
D. PRGR.: Prgr. I: 06.00–23.00. N. BBC Gen. Overseas Sce. – Prgr. II Maltese: 05.00–22.00.

★ MONACO ★

L.T.: GMT+1 h. – **Pr. L.:** French. – **Po.:** 21.000. – **Rcvrs.:** 5.100. – **E.C.:** 110/115 V., A.C., 42 c/s.
RADIO MONTE-CARLO (Comm.)
ADDR.: 16, Boulevard Princesse Charlotte, Monte Carlo. – **L.P.:** Dir. Gen.: R. Schick. Dir. Tec.: M. Auvray. Dir. Prgr.: P. Brive.
HOME SCE.: 1466 kc/s 205 m 400 kW. – 6035 kc/s 49.71 m 25 kW 7140 kc/s 42.02 m 25 kW. – **FM:** 93.5 mc/s.
Mo., Fri., Sun. 05.00–23.05, Tues. 05.00–23.45, Wed. 05.00–23.40, Thurs. 05.00–23.30, Sat. 05.00–05.00.
N.: From 06.00 to 18.00 every h. on the h. and 18.35, 21.25, 23.00.
Rel. Prgrs.: English: Fri. 05.00, Tues., Wed., Thurs. 22.10. **French & Italian:** D. 05.48. **German:** Sun. 05.05, Mo. 05.00. **Italian:** Thurs. 05.05, Fri. 05.30. **Polish:** Tues. 05.00. **Russian:** Sun. 05.20, Sat. 05.00. **Spanish:** Tues., Thurs. 23.15, Wed. 05.00, 23.10. **Ukrainian:** Mo. 05.15.
SPECIAL SHORT WAVE SERVICE: (Rel. prgrs – on both frequencies exc. where indicated).
Armenian: Tues. 21.30. – **Czech:** Sun. 21.30 (7140 kc/s). – **Greek:** Sat. 21.30 (7140 kc/s). – **Hungarian:** Thurs. 21.30 (7140 kc/s). – **Latvian:** Wed. 21.30. – **Lithuanian:** Fri. 21.30. – **Rumanian:** Thurs. 21.30 (6035 kc/s). – **Spanish:** Sun. 21.10, 21.30 (6035 kc/s). Mo. 21.15, Wed. 21.10. – **Ukrainian:** Mo. 21.30. – **Yugoslavian:** Sat. 21.30 (6035 kc/s).
ANN.: "Ici Monte Carlo". – **INT.-SIG.:** "L'Hymne National Monégasque":



V. by QSL-card or letter. – **PUB.:** Weekly prgr.sched.
TRANS WORLD RADIO See last minute information last page.

★ NORWAY ★

L.T.: GMT+1 h.; 15/3–20/9 GMT+2 h. – **Pr.L.:** Norwegian. – **Po.:** 3.500.000. – **Rcvrs.:** 1.000.000. – **E.C.:** 230 V., A.C., 50 c/s.
NORSK RIKSKRINGKASTING (Go.)
A non-comm. enterprise operated by an indep. organization.
FI.: By license payments. – **ADDR.:** Bj. Björnsons Plass 1, Oslo. **Cable:** Studio, Oslo. **Te.:** 463820. – **L.P.:** Dir.: K. Fostervoll. Dir. Prgr.: Th. Diesen. Dir. Adm.: K. Tvedt. Dir. Tec.: Chr. Vibe. Chief Secr.: B. Kragem. Studio Controller: A. Klæbo. Prgr. Editors: Toralv Øksnevad, Karl C. Lyche, H. Kiran, L. Rustad. Dir. Music: K. Lange. Dir. Plays: H. Heiberg. Editor "Programbladet": E. Strand. Dir. S.w. Prgr.: G. Nygaard. Press and Inf. Officer: O. Folkestad.
HOME SCE.: W.: 05.30–08.00, 10.20–13.00, 14.30–22.30, Sun.: 06.50–14.00, 14.30–23.00.
Long- and Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Tromsö	155	1935	10	Notodden	1115	269	1
Oslo	218	1376	200	Röros	1115	269	0.25
Sulitjelma	511	587	0.25	Stavanger	1313	228	100
Vigra	629	477	100	Geilo	1466	205	0.25
Bodö	674	445	10	Narvik	1466	205	1
Finmark	701	428	20	Odda	1466	205	0.25
Bergen I	890	337	20	Porsgrunn	1466	205	1
Kristianssand	890	337	20	Sandnessjöen	1466	205	0.25
Tröndelag	890	337	20	Svalbard	1466	205	1
Alta	1115	269	0.25	Brönnöysund	1484	202	0.25
Arendal	1115	269	0.25	Glomfjord	1484	202	0.25
Bergen	1115	269	1	Mosjöen	1484	202	0.025
Lista	1115	269	0.3	Rjukan	1484	202	0.25
Mo i Rana	1115	269	0.025	Fredrikstad	1578	190	10
Namsos	1115	269	1	Nordkapp	1578	190	2

FM: Bjerkreim 90.6 mc/s 60 kW – Bremanger 93.6 mc/s 15 kW – Gulen 90.9 mc/s 15 kW – Hesteheia 88.8 mc/s 11 kW – Hovdefjell 87.8 mc/s 15 kW – Lyngdal 97.6 mc/s 12 kW – Steinkjer 90.9 mc/s 12 kW – Stord 91.8 mc/s 60 kW – Tryvasshögda* 93.8 mc/s 5.5 kW – Vega 89.1 mc/s 25 kW – Voss 90.3 mc/s 8 kW. – * Testtransmissions. Power Line distribution (1000 m) Opdal 0.25 kW – Åndalsnes 0.25 kW – Åseral 0.25 kW – Aröy 0.65 kW – Sulitjelma 0.25 kW – Langerak 0.6 kW – Tonstad 1.5 kW. – **N.:** 05.40(W), 07.00(W), 08.00(Sun.), 12.00, 18.05, 21.10. – **Wrp.:** 05.40(W), 07.00(W), 08.00(Sun.), 12.00, 18.00, 21.00. – **Folklore Music:** Sun. 16.30. – **Rel.:** Sun. 10.00, Thurs. 17.00, W. 07.15. – **L.L.: German:** Sun. 07.00–07.15. **English:** Sun. 07.15–07.40.
Bergen I (337 m, Voss FM, Odda 205 m, Aröy 1000 m): Mo.–Fri. 15.10–15.30: Information.
Bergen II Local: D. 16.00–17.30 (Sun. 17.45).
Tromsö s.w. tr. carries the Norwegian Home Sce. on 11850 kc/s.
North Norwegian Prgr.: Local: Tues., Wed., Thurs., Sat. 13.00–13.15. This prgr. is broadcast by the stations: Brönnöysund, Sandnessjöen, Mosjöen, Mo i Rana, Sulitjelma, Bodö, Narvik, Glomfjord, Tromsö, Alta, Nordkapp, Finmark.
Samisk from Tromsö, Alta, Nordkapp, Finmark: Tues. 13.10–13.40. Sat. 13.30–14.00.

ANN.: "Dette er Norsk Rikskringkasting". In Samisk: "Det la Norga Rikaradio, Tromsast. Di gullabetet Samgial programa". – INT.-SIG.:

FOREIGN SERVICE (Nov./Feb.)

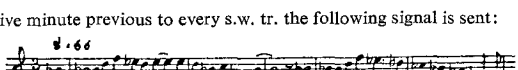
Frequencies that may be used during the year. Transmitters: Fredrikstad 100 kW (1), 10 kW (2), 5 kW (one, 13 m only), Tromsö 10 kW (1).

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
LKF	1578	190.1	LLD	9550	31.41	LLM	15175	19.77
LKJ	6130	48.94	LLG	9610	31.22	LKW	17755	16.90
LLI	6185	48.50	LLH	9645	31.10	LLN	17825	16.83
LLS	7210	41.61	LKQ	11735	25.56	LLP	21670	13.85
LLR	7240	41.44	LLK	11850	25.32	LLQ	21730	13.81
			LKV	15170	19.78	LLA	25900	11.58

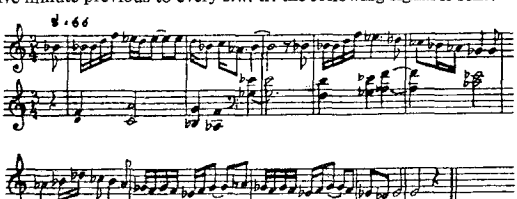
Beamed areas: I=Europe, Africa, Mid- & So. Atlantic; II=No. & Mid Atlantic; III=Far East, Japan, N. Zealand, Ea. Australia; IV=Europe, India, We. Australia; V=So. America, Mid- & So. Atlantic; VII=No. Atlantic, No. America (We. Coast), Pacific, Ea. Africa.
a: Home Sce. b: For Norwegians abroad. c: Weather at Sea (in Norwegian only). d: Norway this week.

Times	Prgr.	Area	kc/s
06.30–07.35	a	I	6130, 11850, 15175
07.00–08.55 (Sun.)	a	I	9610, 21670, 25900
10.25–10.35 (W.)	c	II	6130, 9610, 11850, 15175, 21670, 25900
11.00–12.15	b	III	6130, 9610, 15175
12.00–12.20 (Sun.)	d	III	17825, 21670, 25900
13.00–14.15	b	IV	6130, 15175
14.00–14.20 (Sun.)	d	IV	17825, 21670, 25900
16.00–17.15	b	I	6130, 11850, 15175
17.00–17.20 (Sun.)	d	I	17825, 21670, 25900
18.00–22.00	a	I	6130, 9610, 15175, 11850, 21670 25900
23.00–00.20	b, c	V	6130, 11850
00.05–00.25 (Mo.)	d	V	9610, 1578
01.00–02.20	b, c	VI	6130, 9610,
02.05–02.25 (Mo.)	d	VI	11850, 1578
04.00–05.20	b, c	VII	6130, 9610
05.05–05.25 (Mo.)	d	VII	11850 1578

Tromsö Short-Wave tr. carries the Norwegian Home Service (a) on 9550 kc/s.
Prgr. for Norwegians abroad: Sun.: Religious Sce., Sport. L.N.: – Mo.: Sport N., Parliament N. – Tues.: Actualities. L.N. – Wed.: Request Prgr. (music). L.N. – Thurs.: World N., L.N. – Fri.: Missionary N., L.N. – Sat.: Letter Box, L.N.
For Nowegian Seamen in the No. Atlantic and No. Sea:
ANN.: "This is Radio Norway with its shortwave service for Norwegians abroad".
INT.-SIG.: Every s.w. transmission is introduced by the following theme, which originates from an ancient folk tune from Hallingdal



Five minute previous to every s.w. tr. the following signal is sent:



Message to our English-speaking audience: In our daily prgrs. for Norwegians abroad we will usually have a section of Norwegian music or music presented by Norwegian artists. This musical section, which lasts 15 to 20 minutes, is introduced in **English** as well as in **Norwegian.** On Wed. and Sat. you can listen to our "**Letter Box Programme**", in which we play our listeners' **request records.** We often receive letters from listeners in Norway with request to play a record with a greeting to one of their relatives abroad, but we regret to be unable to comply with these requests. Every Sunday we have an additional prgr. in English, "**Norway this week**", in which we try to present Norway in different ways through music and feature prgrs. We are very grateful for comments on our transmissions. Reports are answered by QSL-card. Return postage is not necessary. Our postal address is: **RADIO NORWAY**, Oslo, Norway.
PUB.: Programbladet (weekly). Prgr. schedule free on request.

NOREA RADIO (Nordic Radio Evangelistic Association)
FI.: By gifts from listeners and friends. – **ADDR.:** Grensen 19, Oslo. **Cable:** "Norskluth". **Te.:** 41 76 40. – **L.P.:** Dir. Adm. & Prgr.: M. Leine. Dir. Tec.: Å. Nevland.
D. PRGR.: D. 19.00–20.00, Sun. 07.30–08.00 over R. Monte Carlo. **Norwegian:** Sun. 07.30–08.00, D. 19.30–20.00. – **Swedish:** D. 19.00–19.30. – **V.** by QSL-card or letter.

★ POLAND ★

L.T.: GMT+1 h. (Su.+2 h.). – **Pr.L.:** Polish. – **Po.:** 28.000.000. – **Rcvrs.:** 5.135.977. – **E.C.:** 220 V., A.C., 50 c/s.

POLSKIE RADIO (Go.)
FI.: By license payments. **AD.:** 7% of broadc. time.
ADDR.: Komitet do Spraw Radiofonii "Polskie Radio" ul. Noakowskiego 20, Warsaw. **Cable:** "Polskieradio". **Te.:** 2106. – **L.P.:** Pres. W. Sokorski. Vice Pres., Home Sce.: H. Werner. Vice Pres., Foreign Sce.: E. Uzdanski. Vice Pres., Engineering: K. Kozlowski. Dir. Prgr. Home Sce.: O. Stampff. Dir. Prgr. Foreign Sce.: H. Meller. Dir. TV.: J. Panski. Dir. Adm.: A. Landau. Secr. Gen.: H. Cendrowski. Dir. Music: R. Jasinski. Dir. Tec.: B. Klimaszewski. Head Intern. Relations Office: Mme. E. Przastkowa.

HOME SERVICE:

	kc/s	m	kW		kc/s	m	kW
Warszawa I	227	1322	500	Kielce	1484	202.2	1
Poznan	737	407	300	Koszalin	1484	202.2	1
Warszawa II	818	367	300	Olsztyn	1484	202.2	1
Katowice	1079	278	60	Krakow	1502	199.7	60
Wroclaw	1250	240	50	Rzeszów	1502	199.7	30
Gdansk	1304	230	30	Opole	1594	188.2	1
Szcecin	1304	230	50	Bialystok	1594	188.2	30
Bydgoszcz	1367	219.8	24	Lublin	1594	188.2	1
Lodz	1484	202	8				

FM: Warszawa III 97.6 mc/s 9 kW. Katowice 89.8 mc/s 3 kW. Opole 95.0 mc/s 3 kW.
Prgr. I 227 kc: W. 03.57–22.10 (Sat. 22.40), Sun. 04.30–23.00. N.: 04.00 (W), 05.00, 06.00, 07.00, 08.00 (Sun.), 11.04, 15.00, 19.00, 22.00. – **Folk Music:** W. 11.45–12.00. – **Chopin Concert:** Wed. 20.00–20.30. – **The Polish Radio Symphony Orchestra (WOSPR) Concert:** Mo. 20.00–22.00.
Prgr. II 818 kc: W. 04.27–12.00, 14.00–23.00 (Sat. 01.00), Sun. 05.00–23.00.
N.: 04.30 (W), 05.30, 06.30, 07.30, 11.04, 14.00 (W), 16.00 (Sun.), 18.00 (W), 20.00, 23.50. – **Chopin Concert:** Sun. 15.30–16.00. – **Folk Music:** Sun. 10.30–10.50. – **National Philharmonic Concerts:** Fri. 18.30. – **Symphonic Concert:** Sun. 11.10.
Prgr. III 97.6 mc/s: D. 19.30–22.00.

FOREIGN SERVICE (From 20/10 1960)

kc/s	m	kc/s	m	kc/s	m	kc/s	m
227	132.2	6195	48.43	9675	31.01	11955	25.09
1079	278.0	7125	42.41	11800	25.42	15120	19.84
1205	249.0	7315	41.01	11815	25.39	15275	19.64
1304	230.0	9525	31.50	11865	25.28	17800	16.85
6005	49.96	9540	31.45				

EUROPEAN SERVICE:

Danish: kc/s
16.30–17.00 6195, 7125, 9540
18.30–19.00 7125, 9540
20.30–21.00 1205, 7125, 9540

English:
18.30–19.00 6195
19.30–20.00 1205, 7125, 9540
20.30–21.00 7315, 9675
21.30–22.00 6195, 9540

Finnish:
16.00–16.30 6195, 7125, 9540
18.00–18.30 6195, 7125, 9540
19.30–20.00 6195

French:
11.00–11.15 11800, 15275, 15120

kc/s
16.30–17.00 9525, 11815
17.30–18.00 1205, 9525, 11815
20.00–20.30 1205, 7315, 9675
21.30–22.00 7315, 9675

German:
17.00–17.30 1205, 7315, 9675
18.30–19.00 1205, 7315, 9675
19.30–20.00 7315, 9675
21.00–21.30 7315, 9675
22.45–23.15 227 (Mo.-Fri.)
23.15–23.45 227 (Sat., Sun. only)

Italian:
18.00–18.30 1205, 9525, 11815
20.00–20.30 9525, 11815
21.00–21.30 6005, 9525
22.00–22.30 6005, 9525

	kc/s
Polish:	
05.00–07.00	6195, 7125, 7315, 9525, 11800
12.30–13.00	7125, 9525 11865, 11955
15.00–15.30	1205, 6195, 7125, 7315, 9525, 9540, 9675, 11815
16.00–16.30	7315, 9675
16.30–17.00	1205, 7315, 9675
17.00–17.30	6195, 7125, 9540
17.30–18.30	7315, 9675
19.00–19.30	7315, 9675
20.00–20.30	7125, 9540
21.00–21.30	1205, 6195, 7125, 9540
23.15–23.45	1079, 1304
Spanish:	
17.00–17.30	9525, 11815
19.00–19.30	7125, 9540
20.30–20.55	9525, 11815
Swedish:	
17.30–18.00	6195, 7125, 9540
19.00–19.30	1205, 6195
22.15–22.45	227 (Mo.-Fri).
22.45–23.15	227 (Sat., Sun. only)
Esperanto:	
15.30–16.00	1205, 7125, 7315, 6195, 9525, 9540, 9675, 11815
Concerts for Europe:	
16.00–16.30	1205
18.30–19.30	9525, 11815
20.00–21.00	6195
21.30–23.00	1205, 7125

NO. AMERICAN SCE.:

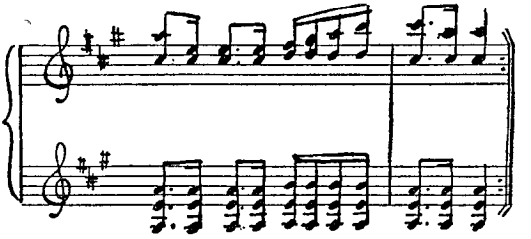
English:	kc/s
11.30–12.00	11800, 15275, 17800
12.30–13.30	11800, 15275, 17800
00.30–01.30	9675, 11815, 15275
02.30–03.30	9675, 11815, 15275
Polish:	
12.00–12.30	11800, 15275, 17800
01.30–02.30	9675, 11800, 15275
03.30–05.00	9675, 11800, 15275

SO. AMERICAN SCE.:

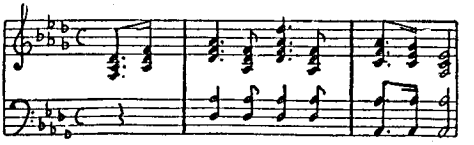
Polish:	
22.15–22.45	9675, 15275
22.45–00.15	9675, 11815, 15275

ANN.: Home Sce.: "This is Polskie Radio Warsaw" (or another station when local programme) – "Tu Polskie Radio Warszawa". – **Foreign Sce.:** English: "This is Warsaw calling". – **Polish:** "Mówi Warszawa". **French:** "Ici Varsovie etc".

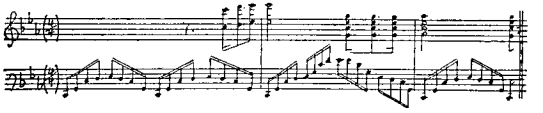
INT.-SIG.: Home Sce.: Warsaw National, Warsaw I:



Warsaw II: First movement of Polonaise in A flat major by Chopin.



Foreign Sce.: Revolutionary Etude by Chopin. – V. by QSL-card.



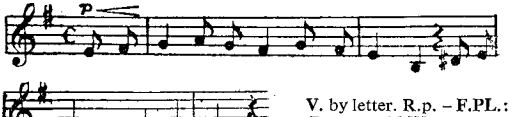
POLISH PATHFINDERS STATION

(Operated by the Polish Pathfinders Union)

ADDR.: Konopnickiej 6, Warzawa. – **L.P.:** Dir. Gen.: K. Soczek. Dir. Prgr.: L. Tyminski. Dir. Tec.: T. Kucharski.

HOME SCE. in Polish: 10.00–17.00 on 6850 kc/s 43.80 m 0.35 kW.

ANN.: "Tu Rozglosnia Harcerska". ("Here is a Polish Pathfinders Union Radiostation"). – **INT.-SIG.:**



V. by letter. R.p. – **F.PL.:** Power to 1 kW.

★ PORTUGAL ★

L.T.: GMT (Su. GMT+1 h., from 1st Sun. in April to 1st Sun. in October). – **Pr.L.:** Portuguese. – **Po.:** 9.000.000. – **Rcvrs.:** 821.290. – **E.C.:** 110/220 V., A.C., 50/60 c/s, D.C.

EMISSORA NACIONAL DE RADIODIFUSAO (Go.)

ADDR.: Rua do Quelhas 2, Lisboa. **Cable:** "Emissora-Lisboa". **Te.:** 660181 PBX. – Emissor Regional do Norte: Rua Candido dos Reis, Porto. – Emissor Regional de Coimbra, Faro, Guarda. – Emissor Regional dos Açores: Ponta Delgada, Açores. – **L.P.:** Dir. Gen.: Dr. J. M. Ferreira. Dir. Tec.: Eng. M. Bivar. Dir. Adm.: Dr. C. Rogeiro. Dir. Prgr.: Eng. J. da Silva Dias. Foreign Sce.: T. Alcaide.

HOME SERVICE

Medium Waves:	kc/s	m	kW	h. of tr.
Lisboa I	665	451.1	135	07.00–24.00(Sat. 01.00)
Lisboa II	755	397.3	135	12.00–15.00, 19.00–24.00(a)
Norte I	1061	283	25	as Lisboa I
Norte II	719	417	25	as Lisboa II
Porto	1367	219	10	as Lisboa I
Coimbra	1448	207	1	as Lisboa I
Faro	1484	202	1	as Lisboa I
Guarda	557	539	1	}
Covilha	1562	192.1	1	} 13.00–15.10(b), 18.00–24.00
Viseu	1358	220.9	1	}
Portalegre	1484	202.2	0.1	} 18.00–24.00(c)
Elvas	1358	220.9	0.1	}
Short Waves:				
Atlântico (Lisboa)	11840	25.34	10	10.00–18.10(d)
	6025	49.79	10	18.30–24.00(e)
Açores Regional (Ponta Delgada)	4865	61.66	1	14.00–15.00, 20.00–24.00

FM:

Lisboa – 94.30 mc/s 12 kW (ERP) as Lisboa I
Porto – 92.50 – 22 – (ERP) as Lisboa I

(a) Sun. 13.00–24.00 – (b) Sat. 13.00–01.00, Sun. 11.00–24.00 – (c) Sat. 18.00–01.00, Sun. 11.00–24.00 – (d) Sun. 11.00–18.40 – (e) Sat. 19.00–01.00.

N.: Lisboa I: 07.15, 08.30, 13.00, 18.00, 21.00, 23.45. Lisboa II: 19.50. Porto II, Coimbra, Guarda: 20.30. – **Wrp.:** 08.30, 10.00, 13.00, 15.00, 21.00, 23.45.

ANN.: "Emissora Nacional a transmitir com... (regional tr.)". – **V.** by QSL-card or letter. – **PUB.:** "Aqui Lisboa", which contains the s.w. sched. Free upon request.

OVERSEAS SERVICE

Short Waves: All stations Lisboa exc. those marked with * (Ponta Delgada). All stations directional exc. 123, 75 and 61 m.b. All stations 100 kW exc. 2422 kc/s (1), 75 m.b. (10), 61 m.b. (1). Call: CSA—.

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
98	2422*	123.9	25	9680	30.99	39	15100	19.87
73	3980	75.38	26	9727	30.84	35	15110	19.85
74	3990	75.19	27	9740	30.80	36	15120	19.84
93	4845*	61.92	28	9746	30.78	64	15125	19.83
97	4865*	61.66	57	9765	30.72	33	15150	19.80
94	4880*	61.48	76	9775	30.69	34	15160	19.79
206	5960	50.34	40	11720	25.60	37	15320	19.59
78	5976	50.20	208	11755	25.52	65	15355	19.54
207	6020	49.83	31	11840	25.34	42	15380	19.50
52	6025	49.79	58	11875	25.26	43	17740	16.92
29	6185	48.50	59	11895	25.22	79	17815	16.84
38	6360	47.17	30	11915	25.18	209	17835	16.82
21	6374	47.09	92	11915*	25.18	44	17870	16.79
91	7018*	42.75	77	11920	25.17	45	17880	16.78
60	7049	42.56	71	11925	25.16	46	17890	16.77
55	7130	42.07	95	11925*	25.16	66	17895	16.76
53	7225	41.52	72	11930	25.15	67	21495	13.96
22	7260	41.32	96	11930*	25.15	47	21660	13.85
54	7265	41.30	62	11935	25.14	48	21690	13.83
23	9635	31.14	41	11958	25.09	49	21700	13.83
56	9645	31.10	63	11964	25.07	50	25650	11.70
20	9650	31.09	32	11995	25.01	68	25665	11.69
24	9670	31.02	75	15050	19.93	51	25700	11.67

Remark: Powers indicated are the powers at carrier level.

I=Timor; II=Macau; III=India/Pakistan/Persian Gulf; IV=Goa (Portuguese India); V=Kenya/Tanganyika/Uganda/So. Af.; VI=S. Tomé/Angola/Mozambique; VII=New Foundland/Greenland (Portuguese Fishing Fleet); VIII=Guinea/Cape Verde; IX=Brazil; X=No. Am. (Atl. Coast); XI=USA (Pa. Coast).

H. of tr.	Area	kc/s	L	H. of tr.	Area	kc/s	L
10.00–13.00	I	21495	P	19.30–21.30	VI	15125	P
10.00–13.15	II	21495	P	10.00–13.00	VIII	21700	P
13.15–13.45	III	21495	Konkani	19.30–24.00	VIII	17895	P
13.45–14.30	III	17880/ 21495	E	21.45–24.00	VIII	15125	P
				21.30–00.30	VII	11840	P
14.30–17.15	IV	21495	P	14.30–17.15	IX	21700	P
14.30–17.00	IV	17880	P	21.30–01.45	IX	17895	P
17.15–18.00	V	17895	E	21.45–02.00	IX	15125	P
10.00–13.15*	VI	21700	P	00.00–04.00	X	11875	P
17.15–21.00	VI	21700	P	00.45–04.00	X	9750	P
18.00–21.00	VI	17895	P	02.00–04.00	XI	9740	P

* Sun. 10.00–17.15.

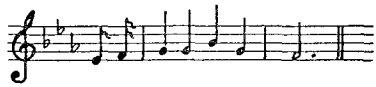
N.: Portuguese: 00.15, 02.15, 11.30, 12.30, 15.00, 18.00, 19.30, 21.00, 22.15. English: 14.03, 17.33. Konkani: 13.29.
ANN.: E.: "This is Lisbon Calling". Konkani: "Lisboa apoita".
INT.-SIG.: Time signal and National Anthem. – V. by QSL-card. –
PUB.: "Aqui Lisboa" quarterly. "Radio e Televisao" weekly.

RADIO RENASCENCA (Religious Catholic)
ADDR.: Emissora Catolica Portuguesa, Rua Capelo 5, 2°, Lisboa.
HOME SERVICE: 08.00–24.00.
Lisboa CSB 3 1286 kc/s 233 m 2 kW – CSB 52 6154 kc/s 48.74 m 3 kW – Porto CSB 30 1169 kc/s 256.6 m 10 kW. – N.: 08.15, 09.30, 12.45, 18.15, 20.30, 23.55.
ANN.: P.: "Radio Renascenca-Emissora Catolica Portuguesa". –
INT.-SIG.: Gong. Prgr.s open with a religious choir. – V. by QSL-card.

RADIO CLUBE PORTUGUES (Comm. - Sociedade Anonima Cooperativa de Responsabilidade Ltd.).
ADDR.: Central Office: Rádio Clube Português, Serviços Centrais, Rua Sampaio e Pina 26, Lisboa. Cable: Radioclube. – Northern Branch: R. Clube Português, Delegação do Norte, Rua de Ceuta 53, Porto. – L.P.: Pres.: Maj. J. B. Moniz. Gen. Mgr.: A. L. Basto. Prgr. Dir.: A. Jorge. Tec. Dir.: Eng. M. Menezes. Comm. Dir.: Cor. R. Pereira da Cunha. – Northern Branch: Dir. Eng. H. Schreck.

HOME SCE.:		kc/s	m	kW	
Miramar	CSB9	782	383.6	100	09.00–15.00, 18.00–00.30 (Sat., Sun. 09.00–01.00)
Parede	CSB2	1034	290.1	25	07.00–03.00
Parede	CSB51	6080	49.34	10	07.00–03.00

FM: Lisboa CSB55 90.2 mc/s 3 kW; 08.30–01.00 – Porto CSB29 90.7 mc/s 1 kW: as CSB9.
ANN.: "Rádio Clube Português a transmitir com as suas estaçoes de onda média, onda curta e modulação de frequencia".
INT.-SIG.: Gong. – V. by QSL-card.



RADIO UNIVERSIDADE (Go. - Ministry of National Education)
ADDR.: R. D. Estefânia 14, Lisboa. Te.: 41884. – L.P.: Dir.: Vacant. Dir. Prgr.: Dr. Caetano de Carvalho. Dir. Tec.: Eng. J. M. Dias.
HOME SERVICE in Portuguese: W. 18.00–18.55. Sun. 11.00–12.55. 755 kc/s 397 m 135 kW. Cultural and informative programmes mainly.
ANN.: "Rádio Universidade, estúdios do Centro Universitário de Lisboa da Mocidade Portuguesa, a transmitir por intermédio da Estação Lisboa 2 da Emissora Nacional". – INT.-SIG.: Opens and closes with the "Marcha da Mocidade Portuguesa". – V. by letter.
F.PL.: FM transmitter. – PUB.: A Bulletin in Portuguese monthly; sent free of charge.

EMISSORES ASSOCIADOS DE LISBOA (Comm.)
R. Peninsular – R. Graca – R. Voz de Lisboa – Clube Radiofonico – CSB4 1594 kc/s 188 m 1 kW: 08.00–01.00 (Sun. 07.00–01.00).

EMISSORES DO NORTE REUNIDOS, Porto (Comm.)
ADDR.: R. D. João IV, 960, Porto.
CSB5 1578 kc/s 190.7 m 10 kW: 08.00–01.00.

RADIO RIBATEJO (Comm.)
FI.: By adv. – ADDR.: Av. D. Rodrigo da Cunha 9, Lisboa. Te.: 72 00 70. – L.P.: Dir. Gen.: J. Varela Santos.
HOME SCE. in Portuguese: 10.00–14.00, 17.00–20.00.
Santarem 1322 kc/s 226.9 m 0.4 kW. – N. 13.45. – INT.-SIG.: Gong. – V. by QSL-card. Re. P., Sp., F., E. – F.PL.: Increase power. Sw., FM.

★ RUMANIA ★

L.T.: GMT+2 h. – Pr.L.: Rumanian. – Po.: 18.300.000. – Revrs.: 2.150.000. – E.C.: 120/208 V., A.C., 50 c/s.

RADIODIFUZIUNEA TELEVIZIUNEA ROMINA (Go.)
AD.: Adv. allowed in special places, max. daily 30 mins.
ADDR.: P.O. B. 111, Bucuresti, Republica Populara Romina. Cable: Radiodifuziunea.

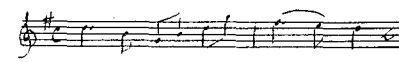
HOME SERVICE:

D. PRGR.:			Weekdays		Sundays	
kc/s	m	kW	1st Prgr.	2nd Prgr.	1st Prgr.	2nd Prgr.
155	1935	150	02.53–22.00		03.53–22.00	
854	351	150	02.53–11.45	11.45–22.00[4]		05.00–22.00
1052	285	20	02.53–06.30	11.57–16.00		05.00–08.00
				17.30–22.00[4]		08.30–22.00
1151	261	30	05.00–05.30	11.57–12.30		06.30–07.30
						08.30–14.30
			05.45–06.30[1]	17.30–22.00[4]		15.15–22.00
908	330	1	05.00–05.30	11.57–22.00[4]		06.30–07.30
			05.45–06.30[1]			08.30–14.30
						15.00–22.00
1457	206	20	02.53–04.30	11.57–16.00		05.00–08.00
			05.00–06.30	17.00–22.00[4]		08.30–24.00

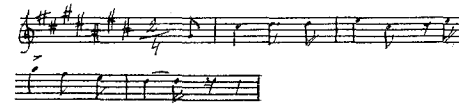
		Weekdays'		Sundays'	
kc/s	m	kW	1st Prgr.	2nd Prgr.	1st Prgr.	2nd Prgr.
755	397	50	02.53–04.30	12.00–13.00		05.00–06.00
			05.00–05.30	14.00–14.30		06.30–14.30
			05.45–12.00[2]	15.00–17.00[3]		16.00–17.00
557	540	1	11.57–22.00		03.53–22.00	
557	540	1		11.57–15.30		12.00–22.00
				17.00–22.00[4]		

[1]: Mo. 05.00–05.30, 05.45–06.00. [2]: Mo. 02.53–05.30, 05.45–12.00. [3]: 12.00–13.00, 14.00–14.30, 15.30–17.00. [4]: Sun. until 22.35.
Besides we broadcast daily 1–3 hours Reg. prgr.: Cluj in Rumanian, Hungarian; Timisoara in Rumanian, German, Serbian; Mures in Rumanian, Hungarian; Craiova – Iasi in Rumanian.
N., Commentaries: 1st Prgr.: D.: 03.00, 04.00, 05.00, 09.00, 11.00, 13.00, 15.00, 17.00, 18.00, 20.00, 21.52. Sun.: 05.00, 11.00, 17.00, 20.00, 21.52. – 2nd Prgr.: D.: 14.00, 16.00, 19.00, 21.00. Sun.: 05.50, 12.00, 18.00, 21.00.

ANN.: Home Sce.: 1st Prgr.: Opening: "Aici Bucuresti, dragi ascultatori, buna dimineata. Transmitem Programul nostru pe statiile de radio cu lungimile de unda de...". 2nd Prgr.: "Aici Bucuresti, transmitem Programul II pe statiile de radio cu lungimile de unda de...". Close down: 1st, 2nd Prgr.: "Aici Bucuresti, Dam ora exacta. Emisiunea noastra s-a terminat. Ascultati-ne din nou miine dimineata la orele... pe lungimile de unda de... Dragi ascultatori, noapte buna". –
PUB.: Weekly: "Programul de Radio si Televiziune", free on request.
INT.-SIG.:
Home Sce. 1st Prgr.:



Home Sce. 2' Prgr.:



FOREIGN SERVICE

kc/s	m	kc/s	m	kc/s	m	kc/s	m
155	1935	5990	50.08	7225	41.52	11810	25.40
755	397	6190	48.46	9510	31.54	11937	25.13
5980	50.16	7195	41.70	9570	31.35		

FOR EUROPE:

English:	kc/s
19.30–20.00	6190, 9510
21.00–21.30	5990, 7195
22.30–23.00	155, 5990, 7195

French:

18.30–19.00 20.30–21.00 22.00–22.30	5990, 7195

German:

18.00–18.30	755, 6190, 9510
19.00–19.30	5990, 7195
21.00–21.30	755
22.00–22.30	155, 6190, 9510

Greek:

17.00–17.30	5990, 6190, 7195, 9510
19.30–20.00	755
21.00–21.30	6190, 9510
21.30–22.00	755

Italian:

17.30–18.00	6190, 9510
18.30–19.00	6190, 9510
20.00–21.00	755
22.00–22.30	755

Portuguese:

20.00–20.30	5990, 6190, 7195, 9510

Rumanian[1]):

21.30–22.00	6190, 9510
22.30–23.00	755, 6190, 9510

Serbian:

17.00–17.30	755
19.00–19.30	755

Spanish:

20.30–21.00	6190, 9510
21.30–22.00	5990, 7195

Concerts:

16.00–16.30[2])	5990, 6190, 7195, 9510, 11937
21.30–22.00[3])	6190, 9510
22.30–23.00[4])[5])	755, 6190, 9510

[1]) Sun./Mo./Thurs./Fri.
[2]) Ann. in French/English.
[3]) Ann. in Rumanian (Tues./Wed./Sat.).
[4]) Ann. in German (Wed./Sat.).
[5]) Ann. in Italian (Tues.).

FOR NEAR EAST:

English:	kc/s:
17.30–18.00	7195
19.00–19.30	6190, 9510

French:

16.30–17.00	6190, 7195, 9510, 11937

Persian:

15.30–16.00	5990, 6190, 7195, 9510
18.00–18.30	5990, 7195

Turkish:

17.30–18.00	755
19.30–20.00	5990, 7195

FOR USA:

English:	kc/s:
01.30–02.30	5980, 6190, 7195, 7225, 9510, 11810
03.00–03.30 04.30–05.00	5980, 6190, 7195, 7225, 9510, 9570, 11810

Jewish:

02.30–03.00	5980, 6190, 7195 7225, 9510, 11810

Rumanian:

23.15–24.00	6190, 7195, 9510
03.30–04.00	5980, 6190, 7195, 7225, 9510, 9570, 11810

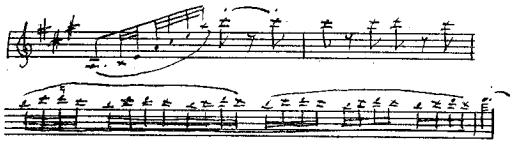
FOR SO. AMERICA:

Portuguese: kc/s:
01.00–01.30 5980, 6190, 7195, 7225, 9510, 11810

Spanish: kc/s
00.00–01.00 5980, 6190, 7195, 7225, 9510, 11810
04.00–04.30 5980, 6190, 7195, 7225, 9510, 9570, 11810

ANN.: Rumanian: "Aici Bucuresti. Aici Bucuresti ascultati emisiunea in benzile de... metri, respectiv... kilocicli". – **English:** For Europe: "This is Bucharest calling in the... meter bands, that is... kilocycles, with today's first (second) broadcast in English". – For USA: "This is Bucharest calling North America in the... meter band, that is... kilocycles, with today's first (second) broadcast in English". – For Orient: "This is Bucharest calling the Near and Middle East in the... meter band, that is... kilocycles". – **French:** "Ici Bucarest. Ici Bucarest dans les bandes de... mètres. Bonsoir, chères auditrices, bonsoir, chers auditeurs". – **German:** "Hier ist der Rumänische Rund- und Fernsehfunk mit der Sendung in deutscher Sprache. Sie hören uns auf Kurzwelle... gleich... kHz... und auf Mittelwelle...". – **Italian:** "Parla Bucarest. E' Bucarest che vi parla nella sua prima (seconda) trasmissione della giornata, su onde corte di metri... Amici ascoltatori, buona sera". – **Spanish:** "Habla Bucarest. Muy buenas noches, estimados oyentes. Comienza su primera (segunda) emisión en lengua española por campos de onda de... metros... kilociclos respectivamente".

INT.-SIG.: Foreign Sce.:



V. by QSL-card or letter. – **PUB.:** Weekly "Programul de Radio". Free upon request.

★ SPAIN ★

L.T.: GMT+1 h. – **Pr. L.:** Spanish. – **Po.:** 29.431.000. – **Rcvrs.:** 2.500.000. – **E.C.:** 110/220 V., A.C., 50 c/s.

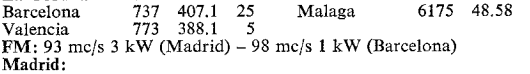
RADIO NACIONAL DE ESPAÑA (Go.)

ADDR.: Paseo de la Castellana, no. 42, Madrid.
L.P.: Dir.Gen.: D.J.M. Revuelta Prieto. Dir. Prgr.: D. D. Porres Gil. Dir. Adm.: D. M. M. Pubul. Dir. Tec. Section: D. J. Sanchez Cordobes. Dir. Pub. Rel.: D. J. de Aguilera Gamoneda.

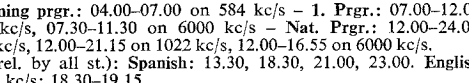
NATIONAL SERVICE:

	kc/s	m	kW		kc/s	m	kW
Madrid	584	513.7	120	Huelva	850	352.9	5
Madrid-Local	1022	293.0	100	Malaga	1007	298.0	6
Sevilla	638	470.5	5	Cuenca	1178	254.7	5
La Coruña	692	434.0	2.5	Madrid	6000	50.00	50
Barcelona	737	407.1	25	Malaga	6175	48.58	2
Valencia	773	388.1	5				

FM: 93 mc/s 3 kW (Madrid) – 98 mc/s 1 kW (Barcelona)
Madrid:
Morning prgr.: 04.00–07.00 on 584 kc/s – **1. Prgr.:** 07.00–12.00 on 584 kc/s, 07.30–11.30 on 6000 kc/s – **Nat. Prgr.:** 12.00–24.00 on 584 kc/s, 12.00–21.15 on 1022 kc/s, 12.00–16.55 on 6000 kc/s.
N. (rel. by all st.): **Spanish:** 13.30, 18.30, 21.00, 23.00. **English** on 1022 kc/s: 18.30–19.15.
Atlántica: 21.30–23.15 on 6130/9695 kc/s
3rd Prgr.: 21.30–23.30 on 1022/6000 kc/s
Sevilla: 07.45–24.00
La Coruña: 12.00–15.00, 18.30–24.00
Barcelona: 08.00–24.00
Valencia: 07.00–24.00
Huelva: 12.00–15.00, 17.00–23.00
Malaga: 12.00–24.00
Cuenca: 11.00–24.00
INT.-SIG.: Sintonia para Servicio:



Señal de pausa:



ANN.: "Transmite Radio Nacional de España desde sus estudios en Madrid".

FOREIGN SERVICE

Madrid-Arganda: 100 kW exc. *50 kW.

6130 kc/s	48.94 m	9585 kc/s	31.30 m	9695 kc/s	30.94 m
7105 –	42.22 –	9605 –	31.23 –	11815 –	25.39–
*9366 –	32.04 –	9677 –	31.00 –	11860 –	25.30–
9370 –	32.01 –			15420 –	19.45–

EUROPEAN SERVICE:
On 7105/9370 kc/s: **Bulgarian:** 18.15–18.30 – **Croatian:** 17.15–17.30. – **Czech:** 16.45–17.00. – **Estonian:** 18.00–18.15 **Hungarian:** 19.00–19.40. **Latvian:** 17.00–17.15– **Lithuanian:** 18.30–18.45 – **Rumanian:** 19.20–19.40 – **Slovak:** 18.45–19.00 – **Ukrainian:** 16.30–16.45.
On 9370 kc: **Albanian:** 17.45–18.00 – On 7105/9366 kc: **Polish:** 19.40–20.10 – On 7105/6130/9366 kc: **English:** 20.20–20.50 – On 7105/6130/9366 kc: **French:** 20.50–21.20; **German:** 21.20–21.40; **Italian:** 21.40–22.00 – On 9370 kc: **Bielorussian:** 17.30–17.45
"Buenas Noches Europa, Aqui es Madrid": Sat. 23.30–01.00 on 6000 kc – **N. and Music in Spanish** (23.30), **French** (23.45), **English** (00.00), **Italian** (00.15), **German** (00.30).

OVERSEAS SERVICE: m.b.

Arabic: 13.30–14.00 19
1) 14.00–14.45 6130kc
19.30–20.00 31
Chinese: 11.45–12.15 11860, 15420kc
English 2) 03.15–04.00 } 9366,
3) 04.15–05.00 } 6130kc
4) 05.15–06.00 }
French: 1) 13.15–13.59 6130kc

m.b.
Portug.: 5) 22.15–22.45 9366, 11815kc
Spanish: 6) 11.00–11.45 25–19
7) 11.30–12.00 293–50
8) 12.15–12.30 25–19
1) 12.30–13.14 6130kc
9) 15.45–16.20 31
10) 22.45–23.57 32–31
11) 23.57–02.57 32–31–25

1) Morocco. 2) USA East Coast. 3) USA West Coast. 4) USA all states. 5) Brazil. 6) Philippines. 7) Spaniards living abroad. 8) Missionaries in the East. 9) Guinea & W. Africa. 10) Spaniards living in America. 11) Latin America.
All prgrs. to Ea. Eu. are repeated on 7105kc 100kW from 03.30–07.15 and to Morocco on 6130 kc 100 kW from 12.30–00.15.
ANN.: E.: "This is the voice of Spain broadcasting from the Spanish National Radio in Madrid".
INT.-SIG.: Gong and the following tune:

V. by QSL-card or letter. – **PUB.:** Teleradio (weekly).

RED DE EMISORAS DEL MOVIMIENTO (R.E.M.)

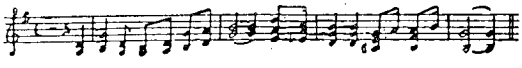
(Broadcasting system of the Phalanx)
The Red de Emisoras del Movimiento belongs to the National Delegation of Press, Propaganda and Radio. **ADDR.:** Red de Emisoras del Movimiento, Ayala, No. 15, Madrid. – **Te.:** 2.36.72.05. **L.P.:** National Delegate: Jesús F. Fueyo. Dir. R. E. M.: Teodoro Delgado. Adm.: M. Ayuso. Chief Eng.: M. Vázquez. Coordination: J. Jiménez.
Main Station: EFE 14 "La Voz de Madrid" – **L.P.:** Dir.: Teodoro Delgado. Chief Tec.: G. Cabañas. Prgr.: M. Rojas. Prod.: C. Barber. Adm.: E. Calvete.

STATIONS:

Call EFE... Name	kc/s	m	kW	Hours of tr.	
1. La Voz de Valladolid	1385	217	1	10.00–24.00	
2. Radio Teruel	1480	203	2	11.00–14.30,	19.00–23.00
4. Radio Palencia	1358	220.9	1.	11.00–23.00	
5. La Voz de León	1250	240	1.5	09.00–24.00	
6. Radio Cáceres	1079	278.3	1	12.00–15.00,	18.30–23.30
7. Radio Denia	1403	213	0.4	11.30–15.00,	18.00–22.00
8. La Voz de Alicante	1358	220.9	2	08.30–23.30	
9. Radio V. del Panadés	1079	278	1	12.00–14.00,	19.00–22.00
10. Radio Alava	1385	216.6	0.2	09.00–15.00,	17.00–23.00
11. Radio Utiel	1358	220.9	0.19	11.30–15.00,	19.30–23.00
12. Radio Monóvar	1575	190.6	0.05	10.00–16.00,	18.00–23.00
13. Radio Sagunto	1440	208.5	1	10.00–15.00,	18.00–23.00
14. La Voz de Madrid	1223	245.3	20	07.00–24.00	
15. Radio Ferrol	1368	219.3	0.8	11.00–16.00,	18.00–23.00
16. Radio Puigcerdá	1079	278.3	1	11.00–14.30,	17.00–21.30
17. La Voz de Levante	1079	278.3	5	07.00–24.00	
18. Radio Játiva	1358	220.91	0.5	10.00–15.00,	18.00–23.00
20. Radio Ripoll	1480	202.7	0.07	20.00–22.00,	11.00–22.00
21. Radio Cazorla	1120	267	0.3	12.00–16.00,	17.00–21.00
22. Radio Oviedo	1079	278.3	5	09.00–23.30	
23. La Voz de Guipúzcoa	1304	230	5	08.00–23.30	
24. Radio Orihuela	1403	213	0.2	10.00–15.00,	17.00–23.30
25. Radio Cantabria	1358	220	0.8	09.00–24.00	
26. Radio Luarca	1428	210	0.4	10.30–15.00,	18.30–21.15
27. Radio Maresma	1480	203	0.3	11.00–15.00,	18.30–22.30
28. Radio Tortosa	1607	187	0.9	09.00–15.00,	18.00–22.00
29. Radio Tudela	1480	202.7	2	10.00–15.00,	18.00–23.00
31. La Voz de Vigo	1079	278.3	5	07.00–24.00	
32. Radio Avila	1480	202.7	20	07.00–24.00	
33. Radio Tarragona	1570	191.1	0.05	09.00–15.00,	18.00–23.00
34. Radio Atlántico	1480	203.4	2	07.00–08.00,	10.00–10.30
					17.00–23.00
35. Radio Tárrega	1480	202.7	0.37	10.00–23.00	
38. Radio Badajoz	1390	215.8	5	07.30–10.30,	12.00–16.00,
					18.00–23.30

39. Radio Berga	1385	216.6	0.45	11.00	15.00,	18.00–22.00
40. La Voz de la Costa Brava	1250	240	0.35	10.00–15.00,		19.00–23.00
41. Radio Olot	1250	240	0.2	11.00–15.00,		18.00–22.00
42. Radio Sueca	1358	220.9	0.5	11.00–15.00,		18.30–23.00
43. Radio Requena	1480	202.7	0.5	12.00–15.00,		20.00–23.00
44. Radio Picasent	1196	251	0.3	11.00–15.00,		17.00–23.00
45. La Voz de Granada	1250	240	2	08.00–24.00		
46. Radio Guadasuar	1358	221	0.1	11.30–14.00,		19.00–23.00
47. Radio Cullera	1385	216.6	0.2	12.00–15.00,		19.00–23.00
48. Radio Carlet	1209	248	0.4	10.00–22.30		
49. Radio Chelva	1385	216.6	0.06	12.00–14.00,		20.00–22.00
50. La Voz de Cataluña	1358	221	0.9	07.00–24.00		
51. Radio Mora de Ebro	1385	216.6	0.04	11.00–15.00,		19.00–23.00
52. Radio Vendrell	1385	216.6	0.04	11.30–14.30,		19.00–22.30
53. Radio Roda de Ter	1480	203.4	0.02	12.00–14.00,		19.00–21.00
54. Radio Cardona	1500	200	0.04	18.00–21.00		
55. Radio Vich	1540	195	0.6	11.00–23.00		
56. Radio Blanes	1079	278	0.2	11.00–16.00,		19.00–22.00
57. La Voz de Navarra	1079	278	5	09.00–16.00,		19.00–23.00
59. Radio Manises	1151	260.6	0.3	09.00–23.00		
61. Radio Adra	1518	197.6	0.06	12.30–15.00,		19.30–22.00
62. La Voz de Burriana	1460	205.4	0.4	11.00–23.00		

ANN.: "EFE... La Voz de..." or "Radio... de la Red de Emisoras del Movimiento" – V. by letter.



CADENA AZUL DE RADIODIFUSION

(Delegación Nacional de Juventudes)

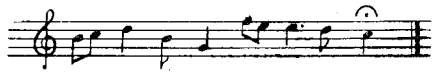
Organization: For the educational work of Radio in Spain and for training of people engaged with Radio. – **L.P.:** Dir. of the Service: Dir. Gen.: Jaime Suaréz A. – **ADDR.:** Diego de Leon 47, Madrid

STATIONS: Call EFJ---. Name: R. Juventud de ---.

	Call	kc/s	m	kW			Call	kc/s	m	kW	
1	1106	271.8	2		España	32	1187	252	0.8		Motril
2	1187	252	2		Soria	33	1250	240	0.4		Villena
3	–	252	0.1		Martorell	34	–	240	2		Osuna
4	–	252	0.1		Igualada	35	1187	252	0.8		Burjasot
5	–	252	2		Cádiz	36	–	252	0.8		Alcaniz
6	–	252	0.1		Almansa	37	1250	240	0.8		Talavera
7	–	252	0.8		Plasencia	38	–	240	0.8		Béjar
8	–	252	0.12		Ribadavia	39	1187	252	0.25		Seo de Urgel
9	1250	240	0.8		Guadalajara	40	–	252	0.4		Aranjuez
10	1106	271.8	0.8		Algemesi	41	1106	271.8	0.8		Langreo
11	–	271.8	2		La Coruña	42	–	271.8	0.4		Eibar
12	–	271.8	0.8		Sabadell	43	1250	240	2		Vizcaya "B"
13	1187	252	0.28		Granollers	44	–	240	0.8		Torrelavega
14	–	252	0.4		San Filiu	45	1106	271.8	2		Inca
15	1250	240	5		Barcelona	46	–	271.8	2		Zaragoza
16	1106	271.8	2		Mérida	47	1250	240	0.4		Melilla
17	1250	240	0.08		Ayora	48	–	240	0.4		Monforte
18	1187	214	0.8		Villacarrillo	49	1106	271.8	0.4		Villarreal
19	1106	271.8	2		Murcia	50	1250	240	0.8		Calahorra
20	–	271.8	0.04		Villanueva	51	1106	271.8	0.1		Ayamonte
21	1187	252	0.8		Barbastro	52	1250	240	0.8		ArandadeD.
22	–	252	0.8		Menorca	53	1187	252	0.4		M. de Ebro
23	–	252	2		Albacete	54	1250	240	0.05		S. Clemente
24	–	252	0.1		Molins de R.	55	–	240	0.8		G."La L. Cadiz"
25	–	252	2		Almeria	56	1106	271.8	5		Málaga
26	–	252	0.8		Cartagena	57	–	271.8	1		Canarias
28	1250	240	0.8		Baza	58	1250	240	0.08		Felanitx
29	1187	252	0.8		Ponferrada	59	1106	271.8	0.08		Ciudad Rodrigo
30	–	252	0.4		Laredo	60	1250	240	0.4		Valdepeñas
31	1250	240	2		Balaguer						

D.PRGR.: Consist of cultural and educational prgrs., information service about the youth-work, actualities and entertainment.

ANN.: "Habla RADIO JUVENTUD DE..... Estacion num.... de la Cadena Azul de Radiodifusion. "– **INT.-SIG.:** Vibrafon –



SOCIEDAD ESPAÑOLA DE RADIODIFUSION (Comm.)

ADDR.: Av. de José Antonio 32, Apt. 745, Madrid. **Cable:** SER. **Te.:** 221181. – **L.P.:** Pres.: A. Garrigues y Diaz Cañabate. Dir. Gen.: V. Oñate Sanchez. Dir. Tec.: F. Martinez Gonzáles. Dir. Prgr.: M. Aznar. Dir. Adm.: P. Estaun Ipiens. Dir. Transm.: M. Rodriguez Cano. Dir. Inf.: Srta M. Josefa Rubio. Dir. Traffic: B. Moreno-Hidalgo. Dir. Tec.: E. Fontán.

STATIONS: *Main st.

	Call	kc/s	m	kWh.	of tr.
R. Barcelona	EAJ1	809	370.8	10	06.15–24.00
R. Valencia	EAJ3	1259	238.3	5	07.00–24.00
R. Galicia	EAJ4	1448	207.2	2	12.30–23.00
R. Sevilla	EAJ5	800	375.0	5	07.30–24.00
R. Madrid*	EAJ7	683	439.2	20	07.00–24.00
R. S. Sebastian	EAJ8	1025	292.7	5	08.00–23.30
R. Reus	EAJ11	1412	212.5	2	11.00–23.30
R. Bilbao	EAJ28	1133	264.8	2	09.00–23.30
R. Alicante	EAJ31	1448	207.2	2	10.00–23.30
R. Alcira	EAJ54	1493	200.9	2	09.00–23.30
R. Mediterraneo, Valencia		FM: 97 mc/		5	11.00–15.00, 18.00–23.30

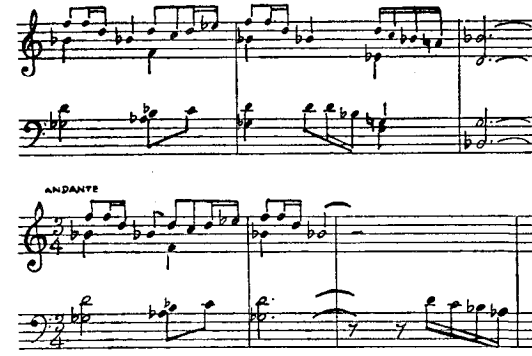
ASSOCIATED STATIONS:

	Call	kc/s	m	kWh.	of
R. Requete de Navarra (Pamplona)	EAJ6	1492	201.1	2	10.00–17.30, 19.30–24.00
R. Mallorca	EAJ13	1430	209.8	5	11.00–15.00, 17.00–23.00
R. Castellón	EAJ14	1502	199.7	2	11.00–15.00, 17.00–23.00
R. Granada	EAJ16	1448	207.2	2	08.00–24.00
R. Murcia	EAJ17	1511	198.5	2	08.00–24.00
R. Rioja (Logroño)	EAJ18	1487	202.1	2	11.00–15.00, 18.00–23.00
R. Asturias (Oviedo)	EAJ19	1268	236.6	2	10.00–24.00
R. Huesca	EAJ22	1475	203.4	2	12.00–15.00, 19.00–23.00
R. Gandia	EAJ23	1412	212.5	2	10.00–16.00, 18.00–23.00
R. Castilla (Burgos)	EAJ27	1448	207.2	2	12.00–15.00, 19.00–23.00
R. Santander	EAJ32	1484	202.2	2	11.00–13.00
R. Gijón	EAJ34	1492	201.1	2	10.00–16.00, 18.00–23.00
R. Pontevedra	EAJ40	1493	200.9	2	12.00–15.30, 19.30–23.00
R. Coruña	EAJ41	1295	231.7	2	13.00–23.00
R. Albacete	EAJ44	1493	200.9	2	09.00–23.00
R. Valladolid	EAJ47	1475	203.4	2	11.30–23.30
R. Vigo	EAJ48	1403	214	2	09.00–15.00, 18.00–23.00
R. Las Palmas	EAJ50	1313	228.5	2	10.30–23.30
R. Extremadura	EAJ52	1484	202.2	2	11.00–23.00
R. Salamanca	EAJ56	1331	225.4	2	12.00–23.00
R. Jerez	EAJ58	1492	201.1	2	12.00–15.00, 17.00–23.00
R. Almeria	EAJ60	1420	211	1	10.00–24.00
R. Jaen	EAJ61	1450	207	2	12.00–15.00, 17.30–23.00
R. Vitoria	EAJ62	1385	216.6	2	09.00–23.00
R. Leon	EAJ63	1502	199.7	2	11.00–15.30, 19.00–23.00
R. Segovia	EAJ64	1502	199.7	2	12.00–15.00, 19.00–23.00
R. Ciudad Real	EAJ65	1493	200.9	2	17.30–23.00
R. Lugo	EAJ68	1487	201.7	3	
R. Zamora	EAJ72	1375	218	2	12.00–23.00
R. Zaragoza	EAJ101	872	344	30	09.00–15.00, 17.00–24.00

NATIONAL SERVICE:

The prgrs. of Sociedad Española are rel. simultaneously by all st. at **the** following hours: Mo.: 20.00–20.45, 21.30–22.00; Tues.-Fri.: 19.30–20.45, 21.30–22.30; Sat.: 19.30–20.45, 21.30–24.00; Sun.: 16.00–19.00.

ANN.: National Service: "Transmite la Sociedad Española de Radiodifusión". **Local Service:** "Transmite Radio... de la Sociedad Española de Radiodifusion". – **INT.-SIG.:** for Home Sce.:



V. by letter. – **PUB.:** "ONDAS" fortnightly.

COMPANIA DE RADIODIFUSION INTERCONTINENTAL (Comm.)

ADDR.: R. Intercontinental, Diego de Leon, 50, Madrid. – **Cable:** "Ondatlantic".

HOME SERVICE: EAJ29 953 kc/s 314.8 m 20 kW: 09.00–02.00.

RADIO NACIONAL DE ESPAÑA

HABLA PARA EL MUNDO

HORAS IN GMT

En chino:	De 11.45 a 12.15, por 25.30 y 19.45 metros.
En árabe:	De 13.30 a 14.00 horas, por 19 metros. (Para Marrueco): De 14.00 a 14.45 horas, por 49 metros. De 19.30 a 20.00 horas, por 31 metros.
En ucraniano:	De 16.30 a 16.45 horas, por 42.22 y 32.01 m.
En checo:	De 16.45 a 17.00 horas, por 42.22 y 32.01 m.
En croata:	De 17.15 a 17.30 horas, por 42 y 32 metros.
En léton:	De 17.00 a 17.15 horas, por 42.22 y 32.01 m.
En ruso:	De 17.30 a 17.45 horas, por 42.22 y 32.01 m.
En bioloruso	De 17.30 a 17.45 horas. por 32.01 metros.
En albano:	De 17.45 a 18.00 horas, por 32.01 metros.
En estoniano:	De 18.00 a 18.15 horas, por 42.22 y 32.01 m.
En búlgaro:	De 18.15 a 18.30 horas, por 42.22 y 32.01 m.
En lituano:	De 18.30 a 18.45 horas, por 42 y 32 metros.
En eslovaco:	De 18.45 a 19.00 horas, por 42 y 32 metros.
En rumano:	De 19.20 a 19.40 horas, por 42 y 32 metros.
En húngaro:	De 19.00 a 19.20 horas, por 42 y 32 metros. De 19.20 a 19,40 horas, por 42.22 y 32.01 m.
En polaco:	De 19.40 a 20.10 horas, por 42.22 y 32.04 m.
En inglés:	(Para Inglaterra): De 20.20 a 20.50 horas, por 42.22, 48.93 y 32.04 metros. (Para Estados Unidos. Costa Atlántica): De 03.15 a 04.00 horas, por 32.04 y 48.93 metros. (Para Estados Unidos. Costa Pacifico): De 04.15 a 05.00 horas, por 32.04 y 48.93 metros. (Para Estados Unidos. General para los Estados): De 05.15 a 06.00 horas, por 32.04 y 48.93 metros.
francés:	De 20.50 a 21.20 horas, por 42.22, 48.93 y 32.04 metros. (Para Marrueco): 13.15 a 13.59 horas, por 49 metros.
En alemán:	De 21.20 a 21.40 horas, por 42.22, 48.93 y 32.04 metros.
En italiano:	De 21.40 a 22.00 horas, por 42.22, 48.93 y 32.04 metros.
En portugués:	(Para Brasil): De 22.15 a 22.45, por 32.04 y 25.39 metros.
En español:	(Para Hispanoamérica): De 23.57 a 02.57 horas, por 32, 31 y 25 metros. (Para españoles residentes en América): De 22.45 a 23.57 horas, por 32 y 31 metros. (Para Filipinas): De 11.00 a 11.45 horas, por 25 y 19 metros. (Para los españoles residentes en el extranjero): De 11.30 a 12.00 horas, por 50 y 293 metros. (Para Marruecos): 12.30 a 13.14 horas, por 49 metros. (Atlantica): De 21.30 a 23.15, por 31 y 48,93 metros. (Para los Misioneros en Oriente): De 12.15 a 12.30 horas, por 25 y 19 metros.

El programa para los paises de la Europa Oriental se repite en Corta:
7105 kilociclos 42.22 metros potencia 100 kw horario 03.30 a 07.15
Marruecos: Corta 6130 kilociclos 48.93 metros potencia 100 kw horario 12.30 a 00.15.

Treienta y cuatro servicios informativos, en veinte idiomas, llevan asi a todos los paises LA VOZ DE ESPAÑA.

RADIO NACIONAL DE ESPAÑA

SPEAKS TO THE WORLD

TIMES IN GMT

In Chinese:	From 11.45 to 12.15 on 25.30 and 19.45 m.
In Arabic:	From 13.30 to 14.00 on 19 m. (to Morocco): From 14.00 to 14.45 on 49 m. From 19.30 to 20.00 on 31 m.
In Ukrainian:	From 16.30 to 16.45 on 42.22 and 32.01 m.
In Czech:	From 16.45 to 17.00 on 42.22 and 32.01 m.
In Croatian:	From 17.15 to 17.30 on 42 and 32 m.
In Latvian:	From 17.00 to 17.15 on 42.22 and 32.01 m.
In Russian:	From 17.30 to 17.45 on 42.22 and 32.01 m.
In Bielorussian	From 17.30 to 17.45 on 32.01 metros.
In Albanian:	From 17.45 to 18.00 on 32.01 m.
In Estonian:	From 18.00 to 18.15 on 42.22 and 32.01 m.
In Bulgarian:	From 18.15 to 18.30 on 42.22 and 32.01 m.
In Lithuanian:	From 18.30 to 18.45 on 42 and 32 m.
In Slovak:	From 18.45 to 19.00 on 42 and 32 m.
In Rumanian:	From 19.20 to 19.40 on 42 and 32 m.
In Polish:	From 19.40 to 20.10 on 42.22 and 32.04 m.
In Hungarian:	From 19.00 to 19.20 on 42 and 32 m. From 19.20 to 19.40 on 42.22 and 32.01 m.
In English:	(to Gt. Britain): From 20.20 to 20.50 on 42.22, 48.93 and 32.04 m. (to USA, Atlantic Coast): From 03.15 to 04.00 on 32.04 and 48.93 m. (to USA, Pacific Coast): From 04.15 to 05.00 on 32.04 and 48.93 m. (to USA all States): From 05.15 to 06.00 on 32.04 and 48.93 m.
In French:	From 20.50 to 21.20 on 42.22, 48.93 and 32.04 (to Morocco): 13.15 to 13.59 on 49 m.
In German:	From 21.20 to 21.40 on 42.22 48.93 and 32.04 m.
In Italian:	From 21.40 to 22.00 on 42.22, 48.93 and 32.04 m.
In Portuguese:	(to Brazil): From 22.15 to 22.45 on 32.04 and 25.39 m.
In Spanish:	(to Latin America): From 23.57 to 02.57 on 32, 31 and 25 m. (to Spaniards living in America): From 22.45 to 23.57 on 32 and 31 m. (to Philippines): From 11.00 to 11.45 on 25 and 19 m. (to Spaniards living abroad): From 11.30 to 12.00 on 50 and 293 m. (to Morocco): 12.30 to 13.14 on 49 m. (Atlantic): From 21.30 to 23.15 on 31 and 48,93 m. (to Missionaries in the East): From 12.15 to 12.30 on 25 and 19 m.

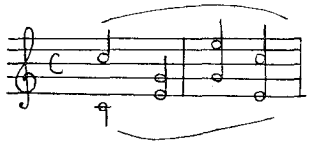
The progammes to Eastern Europe are repeated on short waves as follows:
7105 kilocycles 42.22 m, power 100 kw from 03.30 – 07.15.
Morocco: 6130 kilocycles 48.93 m, power 100 kw from 12.30 – 00.15.

THE VOICE OF SPAIN brings thirtyfour informatory broadcasts in twenty languages to all countries.

AFFILIATED STATIONS:

Name	kc/s	m	kW	Name	kc/s	m	kW
R. Alcoy	1490	201	0.8	R. Manresa	1492	201	0.2
R. Algeciras	1500	200	0.2	R. Melilla	1492	201	0.2
R. Alicante	7940	37.78	1.2	R. Onteniente	1500	209	0.5
R. Almeria	1493	201	0.2	R. Orense	1492	200	0.2
R. Cadiz	1495	201	0.2	R. Asturias	1258	238	0.35
R. Cordoba	1447	207	0.2	R. Andorra	998	301	60
R. Huelva	850	352	2	R. Andorra o.c.	5972	50.22	25
R. Lérida	1492	201	0.2	R. Renascenca	6154	48.74	0.6
R. Linares	1492	201	0.2	R. Renascenca	1169	256.6	1
R. Lugo	1500	200	0.2	R. Elche	1519	197	0.2
R. Malaga	989	308	8	R. Leon	1504	200.6	0.2

ANN.: "Aqui Madrid Emisora Radio Intercontinental". – INT.-SIG.:



RADIO ESPANA

ADDR.: Manuel Silvela 9, Madrid.
HOME SCE.: Madrid EAJ2 854 kc/s 351.2 m 7.5 kW: 07.00–23.30.
ADDR.: Rambla de los Estudios 8, Barcelona.
HOME SCE.: EAJ15 1124 kc/s 266.9 m 3 kW: 12.30–23.00.

RUEDA DE EMISORAS RATO

ADDR.: Jorge Juan 27, Madrid. – L.P.: Dir. Gen.: D. Ramon de Rato. Dir. Publicity: D. A. Ceballos. – HOME SCE.: EAJ49 R. Toledo, 1142 kc 262.7 m 5 kW: 11.30–17.00, 20.30–00.30

STATIONS: EAJ–––.

	kc	m	kW		kc	m	kW
60 R. Almeria	1394	215.2	2	19 R. Asturias	1268	236.6	5
26 R. Antequera	1367	219.5	2	50 R. Cadiz	1322	226.9	2
				35 R. Panades	1094	274	2

CADENA DE ONDAS POPULARES ESPANOLAS (COPE)

ADDR.: Alfonso XI, 4, 1°, Madrid. – L.P.: Dir.: D. Modesto R. de Castroviejo. Delegado Radio y TV: Rvdo P. L. Fierro.
STATIONS: EAJ num ––––

	kc/s	kW		kc/s	kW	
1	1142	2	R. Popular de Madrid	41	1097	1	Estepona
2	1097	2	Sevilla	42	1358	1	Vélez Málaga
3	1097	2	Burgos	43	1322	2	El Ferrol
4	1097	2	Pamplona	44	1322	2	San Sebastián
5	1097	2	Valencia	45	1358	2	Avila
6	1304	2	Zaragoza	46	1322	2	Albacete
7	1304	2	Barcelona	47	1097	2	Vich
8	1304	2	Santiago	48	1358	2	Astorga
9	1322	2	Valladolid	49	1142	1	Altea
10	1142	2	Oviedo	50	1358	2	La Coruña
11	1142	2	Málaga	51	1142	2	Tortosa
12	1304	2	Murcia	52	1358	2	Guadalajara-Sigüenza
13	1358	2	Bilbao	53	1322	2	Tarragona
14	1322	2	Huelva	54	1304	1	Alcoy
15	1097	2	Lérida	55	1142	1	Requena
16	1304	2	Vitoria	56	1322	1	Alcira
17	1304	2	Cádiz	57	1358	2	Cáceres
18	1358	2	Mallorca	58	1097	2	Lugo
19	1304	2	Salamanca	59	1322	2	Orense
20	1304	2	Córdoba	60	1322	2	Plasencia
21	1142	2	Badajoz	61	1304	2	Segovia
22	1358	2	Ciudad Real	62	1142	2	Solsona
23	1322	1	Puertollano	63	1358	2	Taragona
24	1322	1	Ibiza	64	1097	2	Tenerife
25	1304	2	León	65	1322	2	Teruel
26	1097	2	Zamora	66	1142	1	Calatayud
27	(Onda trop.)	2	Fernando Poo	67	1322	2	Menorca
28	1142	1	Cieza	68	1322	2	Santander
29	1322	1	Lorca	69	1358	2	Almeria
30	1142	1	San Javier	70	1322	2	Soria
31	1358	2	Orihuela-Alicante	71	1358	2	Barbastro
32	1322	1	Elda	72	1097	2	Ciudad Rodrigo
33	1142	2	Vigo	73	1304	2	Cuenca
34	1142	2	Logroño	74	1097	2	Guadix-Baza
35	1322	2	Las Palmas	75	1322	2	Huesca
36	1097	2	Toledo	76	1142	2	Jaca
37	1142	1	Benavente	77	1358	2	Palencia
38	1322	2	Gerona	78	1358	2	Segorbe
39	1322	2	Granada	79	1304	2	Seo de Urgel
40	1142	2	Jaén	80	1322	2	Alora (Málaga)

★ SWEDEN ★

L.T.: GMT+1 h. – P.L.: Swedish. – Po.: 7.471.345. – Rcvrs.: 2.711.048. – E.C.: 110/127/220 V., A.C., 50 c/s; 220 V., D.C.

SVERIGES RADIO (Swedish Broadcasting Corporation) (Non comm· semigovt. broadcasting corporation). – FI.: By license payments.
ADDR.: Kungsgatan 8, Stockholm. Postal Address: Box 955, Stockholm 1. Cable: Broadcast. Te.: 223040. – L.P.: Chairman Board of Governors: Per Eckerberg. Dir. Gen.: Olof Rydbeck. Deputy Dir.: Sven Jerring. Dir.: Henrik Hahr. Dir. Adm.: Erik Mattsson. Dir. Tec.: Johan von Utfall. Dir. Prgr.: Sound: Nils-Olof Franzén. Dir. Prgr. TV: Nils-Erik Baehrendtz. Deputy Dir. Prgr. TV: Per-Martin Hamberg. Dir. Publications Dept.: Manne Ginsburg. Dir. Music: Nils Castegren. Dir. Spoken Word, Sound: Karl-Erik Lundewall; TV: Mats Rehnberg. Dir. Drama, Sound: Palle Brunius; TV: Henrik Dyfverman. Dir. Variety, Sound: Tage Danielsson; TV: Per-Martin Hamberg. Head Overseas Prgr.: Roland Pålsson. Head Press and Information: Philip von Krusenstierna. Head External Relations: Karin Bergman; TV, prgr. exchange: Marianne Lamby.
KUNGL. TELESTYRELSEN (The Board of Telecommunications) has the responsibility for the distribution of the prgr's produced by Sveriges Radio and has also charge of the collection of license fees. Addr.: Stockholm 16. Cable: Gentel. Te.: Trunk calls: 236060, local calls: 236040. – L.P.: Dir. Gen.: H. Sterky. Chief of Radio Div.: E. Esping. Chief of Broadc. Sec.: K. Ekström.
STATIONS: Medium Waves:

Station	Prgr.	kc/s	kW	Station	Prgr.	kc/s	kW
Boden	2	1594	0.15	Mariestad	2	1394	0.15
Borås	1	1562	2	Motala	1	191	150
	2	1394	0.15	Norrköping	1	1562	1.5
Eskilstuna	1	1562	0.5	Piteå	2	1394	0.15
Falkenberg	1	1448	0.15	Porjus	1	1529	0.075
Falun	1	1223	100		2	1594	0.075
Gävle	1	1448	0.5	Stockholm	1	773	150
Göteborg	1	980	150		2	1394	0.25
	2	1394	0.25	Sundsvall	1	593	150
Halmstad	1	1562	2		2	1394	0.15
	2	1394	0.15	Säffle	1	1448	0.15
Hudisvall	1	1448	1.5		2	1594	0.15
	2	1394	0.15	Söderhamn	1	1562	0.06
Hälsingborg	1	1448	1.5		2	1394	0.15
Hörby	1	1178	100	Trollhättan	1	1448	2
Jönköping	1	1448	2		2	1594	0.15
	2	1594	0.2	Uddevalla	1	1562	0.5
Kalmar	1	1562	2		2	1394	0.15
Karlskrona	1	1448	1.5	Umeå	1	1448	2
Karlstad	1	1562	1.5		2	1594	0.15
	2	1394	0.15	Uppsala	1	1562	2
Kiruna	1	1562	0.5	Varberg	1	1562	2
	2	1394	0.15		2	1394	0.15
Kristinehamn	1	1448	0.15	Visby	1	1448	0.5
	2	1594	0.15	Vänersborg	2	1394	0.15
Ludvika	2	1394	0.15	Västervik	2	1394	0.15
Luleå	1	182	10	Västerås	1	1448	2
	2	1394	0.15	Örebro	1	1562	0.5
Malmberget	1	773	2	Örnsköldsvik	1	1562	1.5
	2	1394	0.15		2	1394	0.15
Malmö	1	1562	2	Östersund	1	719	150

Wired Broadc.: Prgr. 1: 164 kc/s 1829 m – Prgr. 2: 209 kc/s 1435 m.
Short Waves: Hörby I, II 100 kW. * Motala 12 kW.

kc/s	m	Prgr.	kc/s	m	Prgr.	kc/s	m	Prgr.
6065	49.46	1	*7270	41.47	2	11880	25.25	1

FM:

Stations	Prgr.	mc/s	kW	Stations	Prgr.	mc/s	kW
Arvidsjaur	1	89.4	15	Halmstad	2	95.4	15
	2	93.0	15	Hälsingborg	1	92.8	3
Boden	1	94.5	15		2	95.7	3
	2	99.4	15	Hörby	1	88.8	60
Bollnäs	1	91.8	15		2	92.4	60
	2	96.0	15	Malmö	1	93.3	3
Borlänge	1	89.4	15		2	98.7	3
	2	93.0	15	Norrköping	1	90.0	15
Borås	1	88.5	3		2	93.5	15
	2	94.6	3	Nässjö	1	94.2	15
Bäckefors	1	92.7	15		2	99.0	15
	2	96.8	15	Skövde	1	95.1	15
Emmaboda	1	89.4	15		2	97.5	15
	2	93.0	15	Sollefteå	1	93.3	15
Gällivare	1	90.0	15		2	98.1	15
	2	93.6	15	Stockholm	1	92.4	60
Gävle	1	93.9	15		2	96.6	60
	2	98.7	15	Storuman	1	87.6	15
Göteborg	1	92.1	15		2	91.2	15
	2	96.3	15	Sundsvall	1	92.7	15
Halmstad	1	91.2	15		2	96.9	15

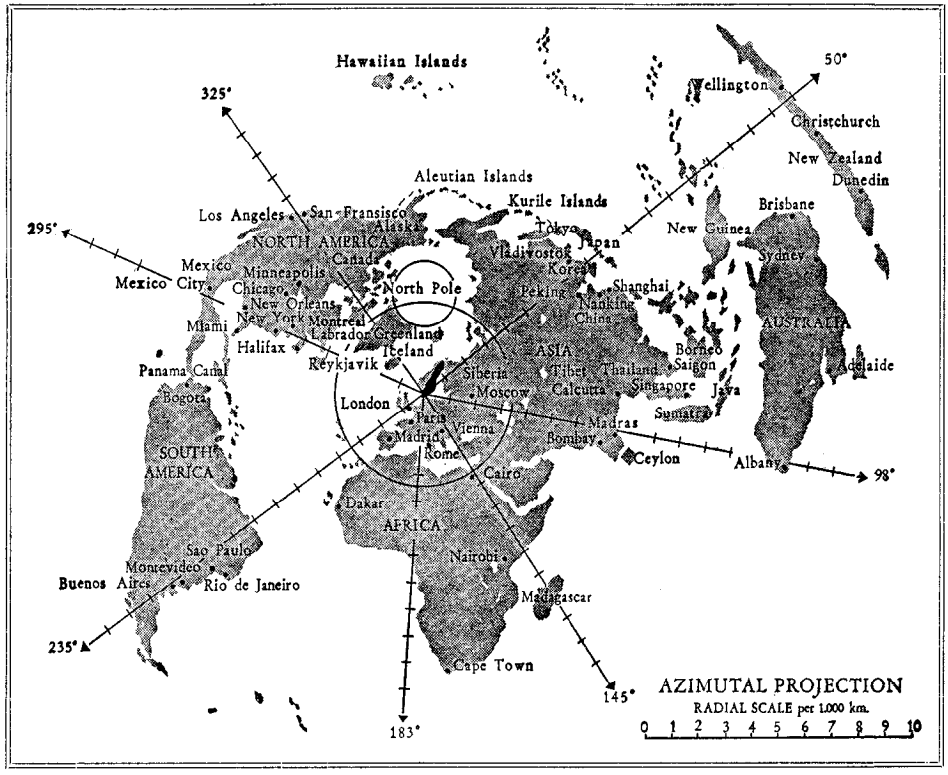
'THIS IS RADIO SWEDEN'

calling the world
in five languages daily:

ENGLISH · GERMAN · SPANISH
PORTUGUESE · SWEDISH

and bringing News, Music and
Feature Programmes over
Radio Sweden's 100 kW transmitters.

The transcription service *offers a wide range of recorded programmes about Sweden.*



See p. 102 for schedules.

Stations	Prgr.	mc/s	kW	Stations	Prgr.	mc/s	kW
Uddevalla	1	89.1	3	Västervik	1	91.8	25
	2	93.1	3		2	96.0	25
Uppsala	1	90.4	3	Västerås	1	95.7	15
	2	94.8	3		2	98.4	15
Varberg	1	87.6	3	Örebro	1	87.9	60
	2	93.6	3		2	91.5	60
Vännäs	1	88.5	60	Östersund	1	87.9	60
	2	92.1	60		2	91.5	60

FM tr.s under construction:

Station	Prgr.	mc/s	kW	Station	Prgr.	mc/s	kW
Bäckefors[1])	1	92.7	60	Örnsköldsvik[1])	1	90.8	10
	2	96.8	60		2	94.4	10
Lycksele[1])	1	95.4	15	Gäddede[2])	1	93.1	0.03
	2	98.7	15		2	95.0	0.03
Mora[1])	1	94.9	10	Norrköping[2])	1	90.0	60 *
	2	97.8	10		2	93.5	60 *
Sunne[1])	1	90.9	60	Pajala[2])	1	87.9	15
	2	94.5	60		2	91.5	15
Sveg[1])	1	90.6	15	Sundsvall[2])	1	92.7	60 *
	2	94.2	15		2	96.9	60 *
Visby[1])	1	97.2	15	Tåsjö[2])	1	90.3	15
	2	99.5	15		2	93.9	15

*=power to be increased. [1]) end 1960. [2]) before 1/6 61.

HOME SERVICE

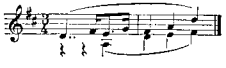
FIRST PRGR.: Mo.–Fri. 04.55–22.00, Sat. 05.00–23.00, Sun. 06.00–22.00.

Short Waves: 05.00–09.00, 17.45–22.00 6065 kc/s – 09.00–12.15 9620 kc/s (from 5/3 61 11880 kc/s).
Rel. Prgrs.: Morning Sce.'s: W.: 05.20, 06.40. Sun.: Divine Sce.: 10.00. Evening Sce.: 16.10. – **N.: D.:** 07.00, 11.30, 14.00, 16.00, 17.30, 18.00, 21.00, Mo.–Fri.: 05.00, 06.00, 06.30, 20.00, Mo.–Sat.: 05.30, Sat. 10.00. – **Wrp.:** (incl. Weather Forecast for Swedish Waters) D.: 07.00, 11.30, 17.57, 21.00. Weather Forecast for Swedish Waters only: D. 16.00, W. 05.30.

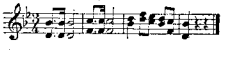
SECOND PRGR.: Mo.–Fri. 16.00–22.00(approx.), Sat. 14.00–22.00 (approx.), Sun. 07.00–22.00(approx.). (Spring 1961). – **On 7270 kc/s:** 16.00–21.30.
L.L.: Sun. 07.15 **Russian Beginner's Course,** 08.00 **English Beginner's Course. French Course** Sun. mornings presenting modern and industrial France. **Danish Course** to help Swedish listeners to understand spoken Danish and avoid the most common pitfalls.

ANN.: (Nat. Prgr.): "Sveriges Radio..." and the name of the transmitting station. For instance: "Sveriges Radio, Stockholm". –
INT.-SIG.: Home Service 1st Prgr.: The opening notes from Carl Michael Bellman's "Storm och böljor tystna re'n" and 2nd Prgr.: from Bellman's "Fredmans Epistel No. 64": "Fäll dine ögon skäms nu din tossa".

Home Service 1st Prgr.:



Home Service 2nd Prgr.:



FOREIGN SERVICE

Stations: Hörby – 100 kW.

kc/s	m	kc/s	m	kc/s	m
1178	254.7	9620	31.19	11880	25.25
6065	29.46	11705	25.63	15240	19.69
7210	41.61	11805	25.41	17840	16.82
				17845	16.81

EUROPEAN SERVICE:

English:		German:		Portuguese:	
20.30–21.00	7210	22.00–22.30	6065	22.00–22.45	11705
23.30–24.00	1178	23.00–23.30	1178	**Spanish:**	
				21.15–22.00	11705

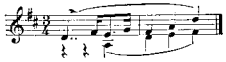
OVERSEAS SERVICE:
Periods: 1. per. 6/11 60–4/3 61. – 2. per. 5/3 61–3/11 61.

Service	h. of tr.	L.	1. per. kc/s	2. per. kc/s
W. No.Am.	02.30–03.15	Swedish	9620	11805
	03.15–03.45	English		
Ea. No.Am.	14.00–14.30	English	17840	17840
	01.00–01.45	Swedish	9620	11805
	01.45–02.15	English		
Mex.-C.Am.	04.00–04.45	Spanish	9620	11805
So.Am.	23.00–23.45	Spanish	11705	11705
	23.45–00.30	Portug.	9620	15240
	01.00–01.45	Swedish		
	01.45–02.30	Portug.	11705	11705
	02.30–03.15	Spanish		

Service	h. of tr.	L.	1. per. kc/s	2. per. kc/s
Africa	17.45–18.15	English	11705	15240
	18.15–19.00	Swedish		
	19.15–19.45	German	11705	11705
	19.45–20.15	English		
M. East	16.15–16.45	English	11705	11705
	16.45–17.30	Swedish	15240	15240
So. Asia	14.45–15.15	English	11880	15240
	15.15–16.00	Swedish	9620	17845
Far East	12.30–13.00	English	7210	15240
	13.00–13.45	Swedish	9620	17845

Radio Sweden reserves the right to alter the schedule if necessary.

SWEDEN CALLING DX'ers: Every Mo. in all English & French language broadcasts. Every Wed. in the German broadcast; also in Spanish (once monthly) and Portuguese (Wed.).
ANN.: "This is Radio Sweden". – **G.:** "Hier ist der Schwedische Rundfunk, Stockholm". – **Sp.:** "Habla Estocolmo". – **P.:** "R. Suécia apresenta". – **Sw.:** "Sveriges Radio, Stockholm".
INT.-SIG.: Foreign Service: The first movement of Carl Michael Bellman's "Storm och böljor tystna re'n"



V. by QSL-card, folder and/or letter. **R.** Sweden will appreciate all letters and reports on reception of the transmissions. Prgr. schedules by writing to Radio Sweden, Stockholm 7.
PUB.: Monthly: "Radio Sweden" in five languages: English, German, Spanish, Portuguese. Swedish. Weekly: "Röster i Radio-TV".

IBRA RADIO AB (Non-Comm., Non-Go., Christian)

ADD.: IBRA RADIO, Box 821, Stockholm 1. – **Studios:**
The main studio is Sveavägen 34, Stockholm. Go-workers in Denmark, Finland, France, Germany, Gt. Britain, Holland, Italy, Japan, Norway, Portugal, U.S.A.-**Cable:** "IBRA-RADIO". **L. P.:** Pres. Dr. Lewi Pethrus. Vice Pres.: Karl G. Ottosen. Dir. Prgr.: H. Carlsson.

Stations		kc/s	m	kW	Time	Language
Radio	OQE 15				Every sec.	
Bukava, Rep. Congo		4808	62.4	10	Sun. 16.45–17.00	French
Radio National Cochabamba, Bolivia		6160	48.79	1.1	D. 18.00–18.15	Spanish
R. La Cruz del Sur	CP38	9505	31.56	1	Thurs.	
La Paz, Bolivia	CP27	730	411	1	16.00–16.15	English
Radio WIVV Vieques, Puerto Rico		1370	219	1	Thurs. 00.30–00.45	English
R. Riquelme Coquimbo, Chile	CA 96	960	312	1.3	Sun.	Spanish
R. Paraguay	ZPA10	6015	49.88	1	Wed.	
Asunción, Paraguay		1300	231	1.5	17.15–17.30	Spanish
R. Kanto Yokohama Japan	JOKF JORF	1450 1380	207 203	3 10	Sun.	Japanese

The same Japanese prgr. is also broadcast over: R. Hokkaido, Hokkaido, Japan.
PUB.: Monthly: "IBRA" in a Swedish and an English edition. Daily "DAGEN", Sweden's greatest Christian newspaper.

Advertisement:
IBRA RADIO FEDERATION is an international federation of listeners. Anybody can become a member of this federation. **"IBRA"**, the monthly magazine, is mailed to each member. The membership fee is: Sw. Crowns 30.–, US $ 10.– or Engl. £ 1. IBRA RADIO MISSION is an organ receiving gifts in favour of the Swedish free radiowork.

★ SWITZERLAND ★

L.T.: GMT+1 h. – **Pr.L.:** German dialects, French, Italian, Romanche. – **Po.:** 5.243.000. – **Rcvrs.:** 1.422.769. – **E.C.:** 220 V., A.C., 50 c/s.

SWISS BROADCASTING AND TELEVISION CORPORATION

(A non profit making, Comp.). – **FI.:** By license-fee.
ADDR's.: Schweizerische Radio- und Fernsehgesellschaft (SRG). Société Suisse de Radiodiffusion et Télévision (SSR). Società Svizzera di Radiotelevisione (SSR). Swiss Broadcasting and Television Corporation (SBC). Neuengass-Passage 2, Berne. **Cable:** Radif. **Te.:** (031) 2,59,55. – **Schweizerischer Kurzwellendienst,** Service Suisse des Ondes Courtes, Swiss Shortwave Service, Neuengasse 23, Berne. **Te.:** (031) 3,08,86. – **Regional Centres: R. Zürich,** Brunnenhofstr. 20, Zürich – **R. Berne,** Schwarztorstr. 21, Berne – **R. Basel,** Novarastr. 2,

Basel – **R. Lausanne**, Maison de la Radio, La Sallaz, Lausanne – **R. Genève**, 66, Boulev. Carl Vogt, Genève – **R. Lugano**, Campo Marzio, Lugano.

L.P.: Pres. of the Board of Adm.: Dr. H. Oprecht. Dir. Gen.: M. Bezençon. Head of Adm. and Deputy Dir. Gen.: D. Carl. Dir. Swiss Shortwave Sce.: Dr. G. H. Padel. Head of Spoken Word in Swiss Shortwave Sce.: Dr. H. de May. Dir. Swiss TV: E. Haas. – **Managers of the Regional Centres: Beromünster**: Studio Zürich: Dr. Samuel Bächli. Studio Berne: Dr. K. Schenker. Studio Basel: Dr. F. Ernst. **Sottens**: Studio Lausanne: J. P. Méroz. Studio Genève: Dr. R. Dovaz **Monte Ceneri**: Studio Lugano: Dr. S. Molo.

HOME SERVICE

GERMAN:

First Prgr.: Sun. 06.45–22.15. Mo.–Fri.: 05.15–06.30, 10.00–13.30, 14.59–22.15. Sat.: 05.15–06.30, 10.00–22.15.

	kc/s	m	kW		kc/s	m	kW
Beromünster	529	567.1	150	Coire	1367	219.5	0.5
Basel	1367	219.5	0.5	Sool	1367	219.5	0.5

FM: Relay Beromünster:

	ch.	mc/s		ch.	mc/s		ch.	mc/s
Valzeina I	41	99.3	Ladir I	30	96.0	Brig I	23	93.9
Sils I	29	95.7	Hornfluh I	30	96.0	Leuk	20	93.0
Niederhorn I	42	99.6	Davos	29	95.7	Attinghaus.	13	90.9
St. Anton	43	99.9	Tarasp	27	95.1	Poschiavo I	4	88.2
Celerina I	43	99.9	Sool I	26	94.8	Gurtnellen I	30	96.0
Ernen	40	99.0	Geissholz I	29	95.7	Brusio I	2	87.6

Symphony: Tues. 19.00 – **N., Wrp.**: 05.15, 06.00(Sun. 06.50), 11.30, 18.30, 21.15 – **Commentary**: 18.40 (18.00: Current N. – Items, non-political), Fri. 18.00: "World Chronicle"; Mo. 21.20: Review for Swiss Abroad) – **Mbg.**: Mo. 19.30.

Second Prgr.: D. 18.00–21.15. Sun. approx. 12.30–16.30, 18.40–21.15. – Local broadcasts in Romanche every third week: Sun. 08.15 (Sermon), Fri. 16.00–16.30 (Children's Hour), 19.00–19.30 (Current N. – Items).

FM:	ch.	mc/s		ch.	mc/s		ch.	mc/s
Basel	40	99.0	Säntis	28	95.4	Brig II	8	89.4
Uetliberg	35	97.5	Bantiger	27	95.1	Celerina II	3	87.9
Sool II	34	97.2	Ladir II	15	91.5	Sils II	23	93.9
Leuk II	36	97.8	Davos II	23	93.9	Tarasp II	15	91.5
Valzeina II	11	90.3	Hornfluh II	39	98.7	Ernen II	28	95.4
Geissholz II	4	88.2	Gurtnellen II	15	91.5	Niederh. II	34	97.2

FRENCH:

First Prgr.: Sun. 06.10–22.15. Mo.–Thurs.: 06.00–07.00, 10.00–13.00, 14.59–22.15. Fri. and Sat. 06.00–22.15.

Sottens 764 kc/s 392.6 m 150 kW – Savièse 1367 kc/s 219.5 m 0.5 kW

FM: Rel. Sottens: Loèche ch. 4 88.2 mc/s – Les Ordons ch. 24 94.2 mc/s – Ravoire ch. 41 99.3 mc/s – Hornfluh ch. 15 91.5 mc/s.

Symphony: Wed. 19.30. Thurs. 20.30 – **N., Wrp.**: 06.15, 11.45, 18.15, 21.30 – **Commentary**: 18.00 micro-partout, after 17.00 Le micro dans la vie, 18.25 Le miroir du monde (Fri.: La situation internationale). – Sat. 08.00–10.00 **"Route Libre"** – Fri. 07.00–08.10 **Université radiophonique** – **Mbg.**: Wed. 19.15.

Second Prgr.: D. 18.00–21.30. Sun. 13.00–21.30.

FM: La Dole ch. 14 91.2 mc/s – Mont Cornu ch. 2 87.6 mc/s Leuk-Feschel II ch. 11 90.3 mc/s – Les Ordons II ch. 36 97.8 mc/s Hornfluh ch. 3 87.9 mc/s – Ravoire ch. 29 95.7 mc/s.

ITALIAN:

First Prgr.: Sun. 07.00–22.00. Mo.–Fri.: 06.00–07.00, 10.00–13.00, 14.59–22.00. Sat.: 06.00–07.00, 10.00–22.00.

Monte Ceneri 557 kc/s 538.6 m 50 kW.

FM: Rel. Monte Ceneri: Monte Morello I ch. 31 96.3 mc/s Poschavio ch. 23 93.9 mc/s – Brusio ch. 15 91.5 mc/s – Pizza Matro ch. 36 97.8 mc/s.

Symphony: Thurs. 19.30 – **N., Wrp.**: 06.15 (Sun. 07.15), 11.30, 18.15, 21.30 – **Commentary**: 18.20 – **Mbg.**: Sun. 13.00.

Second Prgr.: W. 18.00–21.00. Sun.: 14.15–16.15, 19.00–21.00.

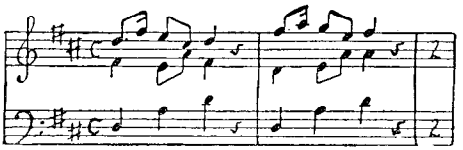
FM: Monte Ceneri II ch. 8 89.4 mc/s – Monte Morello II ch 6 88.8 mc/s.

Monte San Salvatore II ch. 20 93.0 mc/s.

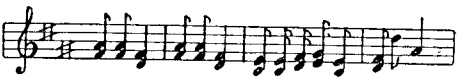
JOINTS PRGRS.: (Beromünster, Sottens, Monte Ceneri): Mo.–Sat. 10.00–11.00 (First Prgr.) and 18.00–19.00 (Second Prgr.).

ANN.: **Beromünster**: "Schweizerischer Landessender Beromünster". – **Sottens**: "Sottens – émetteur national suisse". – **Monte Ceneri**: "Radio della Svizzera italiana – Stazione nazionale di Monte Ceneri".

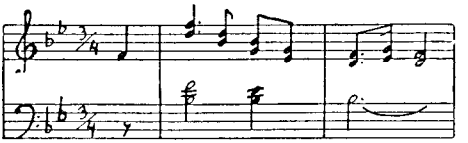
INT.-SIG.: **Beromünster**: Radio Basel: "Z'Basel a mym Rhy".



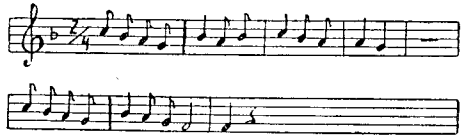
Radio Bern: "D'Zyt isch do".



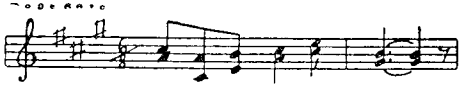
Radio Zürich: "Chum Bueb und lueg dis Ländli a".



Radio Geneve: "Quelle fatale journée" chanson de l'Escalade.



Sottens: Radio Lausanne: "Voici la mi-été".



Monte Ceneri: "Campagne delle Chiesa di Pazzalino".

V.: Any messages from our listeners and viewers are most welcome. – **F.PL.**: A network of 63 FM tr. under construction (30 rel. national tr., 33 second prgr.). – **PUB.**: Weekly: "Schweizer Radiozeitung, Radio und Fernsehen". "Radio – je vois tout". "Radioprogramma" – Prgr.sched. for Shortwave Sce. twice a year.

FOREIGN SERVICE

Schwarzenburg: 100 kW (output power).

HER3	6165 kc/s	48.66 m		HEU6	15315 kc/s	19.59 m
HEI3	7210 –	41.61 –		HER7	17785 –	16.87 –
HER4	9535 –	31.46 –		HER8	21520 –	13.84 –
HED5	9545 –	31.43 –		HEI9	21605 –	13.89 –
HER5	11865 –	25.28 –				

EUROPEAN SERVICE:

German, French, Italian on 6165/9535 kc/s: W. 05.15–07.00, 10.00–13.00, 15.00–22.40. Sat. 05.15–07.00. 10.00–22.40. Sun. 06.10–22.40. **N.**: (G=German. F=French) 05.15 (G), 06.00 (G), 06.15 (F), 11.30 (G), 11.45 (F), 18.15 (F), 18.30 (G), 21.30 (F), 22.20 (G).

Esperanto: Tues., Thurs. 11.55. Mo., Fri. 17.30.

AFRICAN SERVICE:

English: D. 05.15–06.00 on 15315/17785 kc, 14.45–16.30 on 17785 kc. – **Portuguese**: D. 06.00–06.15 on 15315/17785 kc. – **French, Italian, German** (rebroadcasts of European Sce.): W. 05.15–07.00, Sun. 06.10–07.00, 10.00–12.30, D. 17.00–22.40 on 21520 kc.

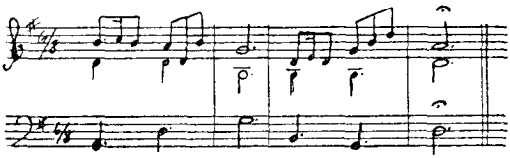
GENERAL OVERSEAS SERVICE:

English	Beamed Areas	kc/s
01.30–03.15	No. America I	6165/9535/11865
04.15–05.00	No. America II	6165/9535/11865
07.15–09.45	Ea. Au., N.Z., We. Au., F. East	11865/17785/21520
12.45–14.30	So. Ea. Asia, Japan	17785/21520
14.45–16.30	India & Pakistan	17785/21605
16.45–18.30	Middle East	15315/21605
18.45–19.30	U.K., Ireland	7210/9545

Prgrs. in all tr's: Time-Sig., N. and commentaries at beginning of each tr. – **Folk music**: D. – **Entertainment**: Swiss Sunday Special: Sun. – **Rel. talks**: Sun. – **Actuality Prgr.**: "On the Spot": Mo. – **Jazz**: Wed. – **"Close up"**, feature on Swiss life alternating each week with feature **"Switzerland in Focus"**: Thurs. – **"This is the Red Cross"**: Tues. – **DX-Corner**: Fri. (07.45, 09.30, 13.15, 15.15, 17.15, 19.15, Wed. 02.00, 04.45). – **Youth Prgr.**: Sat. – **Sunspot predictions**: (after the Home News) 4/5th of each month. – **Light classical music**: Tues. – **Swiss Composers and music played by Swiss artists**: Tues. – **"Swiss Concert Hall"**, presenting Swiss Orchestras and Choirs: Thurs. – **Light Music**: Rendezvous in Basle, Sat. – **Request prgr.**: "Melody Train": Sat.

For Swiss Abroad: In **French** (Mo.), **Italian** (Wed.), **German** (Fri.). **Arabic**: Every Sat. in our M. East transm. starting at 18.00 we broadcast a prgr. in Arabic prepared by the International Committee of the Red Cross in Geneva.

Spanish:
21.05–22.30 Spain 9545/11865 kc. 23.20–00.45 So. America 9535/11865/15315 kc. 03.30–04.00 C. America 9535/11865/15315 kc. – **N. and Comm.** (Noticias y comentarios): D. – **Actuality** (Reflejos de la semana): Thurs. – **Listener's questions** (Consultorio radiofonico): Tues. – **Features:** "Towns and Citizens" (ciudades y cuidadanos): Sun. – **Music:** Folk music (musica popular): D. – **Classical music** (musica sinfonica): Thurs., Sun. – **Swiss Composers:** (Compositores suizos): Tues. – **Light Music** (Musica y fantasia): Sun., and Cita con Cedric Dumont: Tues. – **Request prgr.** (Bailables): Sat.
Portuguese:
20.45–21.05 Portugal 9545/11865 kc. 23.00–23.20 Brazil 9535/11865/15315 kc. – **N. and comm.** (Noticias, comentários): D. – **Actuality** (Coisas da Suiça): Sun. – **Folk Music** (Musica popular): D. exc. Sat. & Wed. – **Request prgr.** (Matando Saudades): Sat.
ANN.: E.: "This is Switzerland Calling". G.: "Hier spricht die Schweiz". F.: "Ici la Suisse". I.: "Qui è la Svizzera". Sp.: "Habla Suiza". P.: "Aqui Suiça".
INT.-SIG.: "Luegit vo Berg und Tal".



V.: We are happy to receive letters and reception reports, which are all replied to or acknowledged by QSL-card and letter. R.p. welcome if airmail is required. – **PUB.:** S.w. sched.: twice a year (autumn, spring).

BROADCAST FROM THE INTERNATIONAL COMMITTEE OF THE RED CROSS, GENEVA

In Peace time: ICRC organizes occasional test transmissions (4 times a year) on the frequency of 7210 kc/s 41.61 m by courtesy of Swiss Short Wave Service. – **In Times of Crisis:** ICRC broadcasts programmes containing information regarding prisoners of war and civilians on the same frequency as well as on others lent by the Swiss authorities, up to 12 hours per day.

UNITED NATIONS BROADCASTING FROM GENEVA

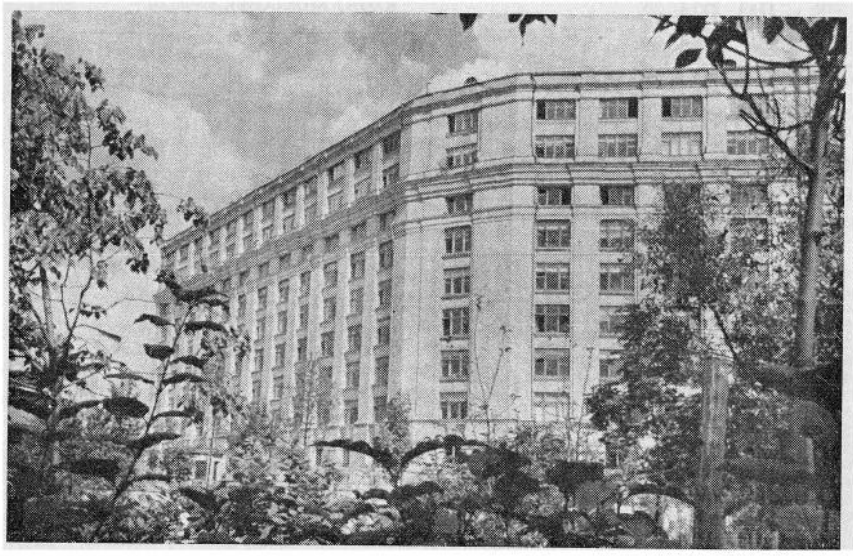
FI.: by the UN Organization. – **ADDR.:** Radio des Nations Unies, Palais des Nations, Genève. **Cable:** Omnipress. **Te.:** 33.10.00, Ext. 2315/2566. – **L.P.:** Dir. Inf.: C. de Kémoularia. Act. Dir. Inf.: P. Jankowski. Chief Radio Operations: I. H. Berenson.
FOREIGN SCE.:
9545 kc 31.43 m 25 kW: Mo.–Fri. 16.30–17.00 in **Russian** to Ea. Eu. 11810 kc 25.4 m 60 kW – 9575 kc 31.33 m 100 kW – 6010 kc 49.92 m 100 kW: Mo.–Fri. 19.20–19.35 in **Arabic** to Middle East. 1770 kc 16.88 m 100 kW – 11905 kc 25.20 m 60 kW; Sat. only 14.30–14.45 in **Persian** to Iran.
9545 kc/s 31.43 m 25 kW: Mo. only 13.00–13.15 in Hungarian to Hungary.
Scheduled feature prgr's in French broadcast over R. Genevè three times a month, also over R. Mali (Dakar). Two of these per month over R. Liban (Beirut).
ANN.: E.: "This is the United Nations Radio in Genève". – F.: "Ici les Nations Unies à Genève". – **INT.-SIG.:**

V. by QSL-card or letter. – **PUB.:** Prgr.sched. free on request.

★ U.S.S.R. ★

L.T.: See time table. – **Pr. L.:** Russian. – **Po.:** 205.000.000. – **Rcvrs.:** 8.400.000. – **E.C.:** 127/220 V., A.C., 50 c/s.
ADDR.: The Soviet Radio, Pjatnitskjaja ulitza 25, Moscow. – **Cable:** Moskva Radio.
L.P.: Pres. of the Broadc. Committe: S. V. Kaftanov, 1st Vice-Pres.: I. S. Tjernysjev. Vice-Pres.: V. I. Pahomov. Dir. of Central TV-Studio: G. A. Ivanov. Chief Foreign Relations: N. S. Birjukov.
STATIONS:
LONG & MEDIUM WAVES:

	kc/s	m	kW	H. of tr.
Moscow RSFSR	151	1987	500	See 1. prgr. R.Moscow
Petropavlovsk-Kamchatskij RSFSR	155	1935		22.30–14.00, 19.30–21.00
Tashkent, Uzbek	164	1829	50	00.30–10.45, 11.40–20.05
Moscow I RSFSR	173	1734	500	See 1. prgr.
Chita RSFSR	173	1734	20	22.00–00.00, 04.00–17.30
Alma Ata	182	1648	10	00.20–09.00, 11.30–20.00
Tbilisi, Georgia	191	1571	35	04.00–10.20, 14.00–21.05
Irkutsk	200	1500	20	22.30–02.00, 04.00–17.30
Moscow II	200	1500	100	See 2. prgr. R.Moscow
Kazan	200	1500		13.00–14.30, 16.00–18.00
Kiev I-Ukrainian SSR	209	1435	150	03.00–10.00, 12.45–22.00
Baku, Azerbaijan	218	1376	35	01.55–11.05, 12.28–20.08
Krasnoyarsk RSFSR	218	1376	50	23.00–08.00, 09.00–17.00
Alma Ata	227	1322		
Leningrad I RSFSR	236	1271	100	See 1. prgr. R.Moscow
Magadan	236	1271		18.00–13.00
Vladivostok	245	1224	100	20.20–14.00
Stalinabad Tajik SSR	254	1181	2	00.00–09.00, 10.00–21.00
Yakutsk RSFSR	263	1141	10	22.00–00.00, 02.00–14.00
Moscow II RSFSR	263	1141	150	See 1. prgr. R.Moscow
Novosibirsk RSFSR	272	1103	100	09.00–18.30(Sun. 19.00)
Minsk-Wh. Russian SSR	281	1068	100	03.00–12.00, 13.00–22.00
Ulan Ude RSFSR	281	1068	10	22.30–01.30, 03.30–22.00
Khabarovsk	335	896		19.30–10.45
Moscow II	340	882.4	100	See 2 prgr. R. Moscow
Yuzno-Sakhalinsk	360	833		19.25–21.45, 01.00–11.30
Moscow II RSFSR	365	820	20	See 2. prgr. R. Moscow
Ashkabad, Turkmen	375	800	10	01.00–11.00, 13.00–21.00
Moscow II RSFSR	385	779	20	See 2. prgr. R. Moscow
Kharkov	385	779	50	
Tashkent I	400	750	50	00.00–10.00, 11.40–20.45
Minsk Wh. Russian SSR	400	750	50	See 1. prgr. R. Moscow
Odessa, Ukrain SSR	548	547.4	100	See 3. prgr. R. Moscow
Moscow II	548	547.4	100	See 2. prgr. R. Moscow
Stalingrad RSFSR	557	539	10	04.00–12.00, 14.00–16.30
Riga-Latvian SSR	575	521.7	100	03.00–11.00, 13.00–20.45
Ordzhonikidze	593	506		
Frunze, Kirghiz SSR	611	491	25	00.30–08.00, 12.00–19.00
Petrozavodsk, Kar.ASSR	611	491	100	03.00–10.00, 13.00–22.00
Krasnodar RSFSR	611	491	20	
Simferopol, Ukrain, SSR	647	463.7	100	04.00–12.00, 13.00–21.00
Murmansk RSFSR	656	457.3	150	03.00–12.00, 13.00–22.00
Vilnius I-Lith. SSR	665	451.1	100	04.00–11.00, 13.00–21.00
Tjernovtsy Ukrain. SSR	674	445.1	50	
Ufa	692	433.5	100	
Moscow II RSFSR	692	433.5	20	See 2. prgr. R. Moscow
Stalino-Ukrainian SSR	710	422.5	100	03.00–11.00, 13.00–21.05
Chelyabinsk RSFSR	737	407.1	10	01.00–03.00, 04.00–07.00 09.20–11.00, 12.45–14.00 15.00–21.00
Moscow II	737	407.1	20	See 2. prgr. R. Moscow
Odessa Ukrain. SSR	764	392.7	10	
Voronej RSFSR	773	388		
Kiev II-Ukrainian SSR	782	383.6	100	04.20–08.00, 10.00–12.00 13.00–16.30
Astrakan	791	379		
Leningrad II RSFSR	800	375	100	03.00–12.00, 13.00–17.00
Ashkabad	800	375		07.00–11.00, 13.00–21.00
Moscow II	809	371	10	See 2. prgr. R. Moscow
Gorkij	827	363	10	03.00–12.00, 13.00–22.00
Moscow II RSFSR	827	363	20	See 2. prgr. R. Moscow
Kharkov, Ukraine	836	358.9	20	
Kazan RSFSR	845	355	10	14.30–22.00
Erevan, Armenia	863	347.6		02.00–11.00, 13.00–14.45
Moscow III RSFSR	872	344	150	See 3. prgr. R. Moscow
Perm (Molotov)	872	344		
Stavropol RSFSR	881	340		03.00–12.00, 13.00–21.05
Uzhgorod-Ukrain. SSR	890	337.1	20	02.30–12.00, 13.15–16.00
Stalingrad	908	330		
Makhachkala RSFSR	917	327.2	10	03.00–11.00, 13.00–21.00
Ivanovo RSFSR	926	324	10	
Lvov-Ukrainian SSR	935	320.9	100	03.00–12.00, 13.00–18.00
Rostov/Don	944	317.8	20	
Smolensk RSFSR	971	309	20	See 2. prgr. R. Moscow
Yuzhno-Sakhalinsk	973	308		19.25–21.45, 01.00–13.05
Kishinjov, Moldavian SSR	998	300.6	100	03.00–12.00, 13.00–21.00
Baku	1016	295	20	
Tallinn I-Estonian SSR	1034	290.1	100	03.00–11.00, 13.00–20.44
Tbilisi, Georgia	1043	287		03.00–12.00, 14.00–21.00
Saransk	1061	283		
Dnjepropetrovsk-Ukrainian SSR	1070	280.4	20	03.00–12.00, 13.00–21.00
Mogilev-Wh.Russ. SSR	1106	271.2	100	
Vilnius II-Lith. SSR	1106	271.2	100	15.00–19.30
Leningrad III RSFSR	1124	266.9	20	03.00–12.00, 13.00–22.00
Kaliningrad RSFSR	1142	262.7	20	03.00–12.00, 13.00–22.00
Kiev-Ukrainian SSR	1169	256.6	150	
Kursk RSFSR	1214	247.1	20	
Tallinn II-Eston. SSR	1214	247.1	5	
Moscow III RSFSR	1232	235	150	See 3. prgr. R. Moscow
Tiraspol-Moldavian SSR	1241	241.7	20	



The Broadcasting House in Moscow

HERE IS MOSCOW RADIO

Moscow Radio transmits to listeners abroad on short and medium waves in 38 foreign languages and 8 of the languages spoken by the peoples of the Soviet Union.

In its broadcasts Moscow Radio gives accounts of life in the Soviet Union and of the most important international events.

Moscow Radio's transmissions comprise news, comments, conversations, interviews, reportages and special programmes for women, children and young people. There are also scientific and technical, sports and musical programmes.

To the microphone of Moscov Radio come Soviet Russian statesmen, prominent Soviet-Russian scientists and cultural personalities, and foreign visitors, politicians and other public personalities, representatives of business circles, scientists, artists, workers and peasants.

Moscow Radio answers letters from its listeners in broadcasts and by post. Request concerts are broadcast and various competitions arranged with prizes for the winners.

LISTEN TO MOSCOW RADIO

Transmission hours and

wave lengths are given in this handbook

U.S.S.R.

Kharkov II-Ukrain. SSR	1322	226.9	100
Kuldiga-Latvian SSR	1349	222.4	20
Madona-Latvian SSR	1349	222.4	20
Valmjera-Latvian SSR	1349	222.4	20
Kaunas-Lithuan. SSR	1385	216.6	150
Tallinn-Estonian. SSR	1403	213.8	20
Tjernigov-Ukrain. SSR	1421	211.1	5
Gomel-Ukrainian SSR	1493	200.9	5
Vinnitsa-Ukrainian SSR	1546	194.0	5
Baranovitji-Whiterussian SSR	1554	193.1	5

FM: Moscow I 4.27 m – Moscow II 4.45 m

SHORT WAVES:

R. Moscow (Frequencies reported)

4200(71.43)	9450(31.75)	11660(25.73)	11975(25.05)	15390(19.49)
4940(60.73)	9470(31.68)	11690(25.66)	11985(25.03)	15405(19.47)
5230(57.36)	9490(31.61)	11700(25.64)	12000(25.00)	15420(19.46)
5260(57.03)	9500(31.58)	11705(25.63)	12010(24.98)	15430(19.44)
5270(56.93)	9510(31.55)	11715(25.61)	12020(24.94)	15440(19.43)
5455(55.00)	9520(31.51)	11720(25.6)	12030(24.94)	15450(19.42)
5780(51.90)	9535(31.46)	11730(25.58)	12040(24.92)	15470(19.39)
5905(50.8)	9555(31.4)	11735(25.56)	12060(24.88)	17700(16.95)
5925(50.63)	9570(31.35)	11740(25.55)	12075(24.84)	17710(16.94)
5940(50.51)	9585(31.3)	11750(25.53)	12100(24.79)	17740(16.91)
5965(50.28)	9593(31.27)	11755(25.52)	15100(19.87)	17760(16.89)
5975(50.21)	9600(31.25)	11760(25.51)	15110(19.85)	17780(16.87)
6000(50.0)	9610(31.22)	11775(25.48)	15120(19.84)	17790(16.86)
6020(49.83)	9625(31.17)	11785(25.46)	15125(19.83)	17800(16.85)
6055(49.55)	9630(31.15)	11790(25.45)	15130(19.83)	17810(16.84)
6165(48.66)	9640(31.12)	11800(25.42)	15150(19.8)	17825(16.83)
6180(48.54)	9650(31.09)	11805(25.41)	15155(19.8)	17840(16.82)
6195(48.43)	9655(31.07)	11810(25.40)	15160(19.79)	17850(16.81)
6910(43.42)	9660(31.06)	11825(25.37)	15170(19.78)	17855(16.81)
6930(43.29)	9665(31.09)	11830(25.36)	15180(19.76)	17865(16.79)
6980(42.98)	9680(30.99)	11840(25.34)	15190(19.75)	17875(16.78)
7135(42.05)	9685(30.48)	11850(25.32)	15200(19.74)	17880(16.78)
7175(41.81)	9700(30.93)	11860(25.3)	15210(19.72)	17895(16.76)
7200(41.67)	9720(30.82)	11865(25.28)	15240(19.69)	17900(16.76)
7220(41.55)	9735(30.88)	11870(25.27)	15265(19.66)	17910(16.75)
7265(41.29)	9745(30.76)	11875(25.26)	15275(19.64)	17945(16.72)
7270(41.27)	9760(30.74)	11880(25.25)	15285(19.63)	21475(13.97)
7275(41.24)	9775(30.69)	11890(25.23)	15295(19.61)	21505(13.95)
7300(41.10)	9790(30.64)	11900(25.21)	15300(19.61)	21525(13.94)
7310(41.04)	9800(30.61)	11915(25.18)	15305(19.6)	21550(13.92)
7340(40.87)	9810(30.58)	11920(25.17)	15315(19.56)	21575(13.90)
7360(40.76)	9830(30.52)	11925(25.16)	15327(19.58)	21610(13.88)
7385(40.62)	9850(30.64)	11930(25.15)	15335(19.59)	21625(13.87)
7390(40.6)	11575(25.92)	11940(25.13)	15350(19.54)	21630(13.87)
7400(40.54)	11630(25.8)	11950(25.1)	15360(19.53)	21670(13.84)
9330(32.15)	11650(25.75)	11960(25.08)	15385(19.50)	21680(13.84) 21900(13.7)

Alma Ata: 4625(64.86) 4955(60.54) 4972(60.34) 5260(57.03) 5762(52.07) 8250(36.36) 9250(32.43) 9340(32.12) 9380(31.98) 9640(31.12) 10530 (28.50). **Ashkhabad:** 4235(70.84) 6353(47.22) 7330(40.93). **Baku:** 3187 (94.14) 4958(60.61) 9840(30.49). **Blagoveshchensk:** 4965(60.42). **Chita:** 21550(13.92). **Chimkent, Kazakh:** 4310(69.61). **Erevan:** 4930 (60.85) 5740(52.26) 6075(49.38) 7150(41.96) 7270(41.27) 9625(31.17). 15430(19.44). **Frunze:** 4009(74.83). **Guryev:** 4559(65.80). **Irkutsk:** 7210 **Ivanovo:** 4997(60.04) 5302(56.60). **Kaunas:** 6135(48.90) 15320(19.59). **Kazan:** 4050(74.00) 15430(19.44). **Khabarovsk:** 4273(70.21) 5940(50.51) 6020(49.83) 6115(49.06) 7150(41.96) 7210(41.61) 9377(31.99) 9750 (30.77) 11690(25.66) 11840(25.34) 15230(19.70) 17865(16.79) 21630 (13.87). **Kiev:** 4940(60.73) 6015(49.88), 6020(49.83) 7132(42.06) 7175 (41.81) 7185(41.75) 7200(41.67) 9625(31.17), 9677(31.00) 11700(25.64) 11740(25.55) 11785(25.46) 11820(25.38) 11860(25.30) 11890(25.23) 15205(19.73) **Komsomolsk:** 6020(49.83) 7280(41.21) 9660(31.06) 9725 (30.85) 11755(25.52) 11850(25.32) 11900(25.31) 15195(19.74) 15215 (19.72) 15235 (19.69) 15335(19.56) 15457(19.41) 17745(16.91) 17865 (16.79) 21600(13.89). **Krasnoyarsk:** 5290(56.71). **Kursk:** 21625(13.87) **Leningrad:** 9600(31.25) 9790(30.64) 11630(25.79) 11885(25.24). **Lvov:** 9790(30.64). **Magadan:** 4996(60.05) 7270(41.27) 9500(31.58) 11820 (25.38). **Minsk:** 6820(43.99). **Murmansk:** 7650(39.22). **Nicolayevsk:** 5230(57.36). **Novosibirsk:** 5225(57.42) 15422(19.46). 21475(13.97). **Petropavlovsk:** 5050(59.41) 5115(58.65) 6070(49.42) 7330(40.93) 9180(32.68) 11730(25.58) 11755(25.52) 11850(25.32) 11900(25.21) 15050(19.93) 15110(19.85) 15140(19.82) 15195(19.74) 15245(19.68) 15252(19.67). **Petrozavodsk:** 5065(59.23) 6055(49.55). **Stalinabad:** 4635(64.72) 7330(40.93) 9555(31.40). **Tallinn:** 6085(49.30). **Tashkent:** 6730(44.58) 6825(43.96) 7100(42.25) 11690(25.66). **Tbilisi:** 4540(66.08) 5040(59.52) 6050(49.59). **Ufa:** 4486(66.88). **Ulan Ude:** 6135(48.90). **Uralsk:** 4873(61.56). **Vladivostok:** 5015 (59.82) 5115(58.65). **Vologda:** 21525(13.94). **Yakutsk:** 5979(50.18). **Yuzhno Sakhalinsk:** 4635(64.72) 21600 (13.89).

HOME SERVICE:

RADIO MOSCOW:

First prgr.: On 151, 173, 236, 263: Mo.-Fri. 03.00–12.00, 12.45–22.00. Sat., Sun. 03.00–22.00; On 151, 173, 236 kc/s: Sat., Sun. 22.00–23.00. On 400 kc/s: D. 12.45–21.05. – In 25, 31 m.b.: Mo.-Fri. 03.00–12.00, 12.45–21.05. Sat., Sun. 03.00–21.05. – In 41 m.b.: D. 15.00–21.05. – In 51 m.b.: D. 03.00–05.20, 15.30–22.00. In 74 m.b.: Mo.-Fri.: 04.30–12.00, 12.45–15.00, Sat., Sun.: 04.30–15.00.

FM I: W. 03.00–10.15, 11.00–15.30, 16.00–22.00. Sun. 03.00–07.30, 08.30–23.00. – News: 03.05, 05.00, 06.00, 11.00, 13.00, 14.00, 16.00, 19.30, 20.50.

Daily prgr. preview: *03.15, 05.15, 10.00, 16.18.*

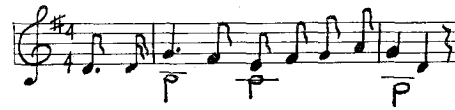
Second Prgr.: On 200 kc/s: D. 05.45–12.20 (Sun. 12.30) – On 340 kc/s: 16.20–22.00 – On 365 kc/s: 16.20–21.05. – On 385 kc/s: 13.00–22.00. On 548 kc/s: D. 05.45–13.00 (Sun. 15.00)– On 692 kc/s: W. 05.45–13.00, 15.30–21.05. Sun. 05.45–21.05 – On 737 kc/s: W. 16.00–21.05. Sun. 05.45–21.05. – On 809 kc/s: W. 05.45–14.00, 16.00–22.00. Sun. 05.45–22.00. – On 827 kc/s: D. 16.20–22.00. – On 971 kc/s: D. 12.00–15.00. – In 25 m.b.: D. 05.45–15.00. – In 31 m.b.: D. 15.30–21.05. – In 41 m.b.: D. 14.30–20.00.

FM II: Mo-Fri. 07.00–15.00, 16.00–22.00. Sat. 07.00–13.00, 15.00–22.00. Sun. 05.45–08.30. 15.30–22.00.

Third prgr.: On 548, 872, 1232 kc/s and in 42, 31, 25 m.b.: D. 16.20 (Sun. 16.00)–21.00.

ANN.: "Govorit Moskva". – "This is Radio Moscow".

INT.-SIG.: **For Home and Foreign Service:**



PUB.: "Radioprogrammy" (weekly).

FOREIGN SERVICE

RADIO MOSCOW:
TO EUROPE

	m.b.
Bulgarian:	
07.15–07.30	31, 25, 19
17.30–18.00	337, 49, 41
Danish:	
17.00–17.30	217, 49, 41
19.30–20.00	49, 41, 31**
20.30–21.00	41*, 31, 25**
Dutch:	
17.30–18.00	227, 49, 41, 31*, 25**
19.00–19.30	41, 31, 25**
20.00–20.30	49, 41
English:	
07.15–07.30	49, 41, 31, 25
09.45–10.00	25, 16, 13
11.15–11.45	25, 19, 16, 13
13.15–13.45	25, 19, 16
18.30–19.30	49, 41, 31**
20.00–21.00	49, 41, 31** (216 m from 20.30)
21.30–22.30	227, 216, 49, 41, 31**
22.30–23.00	227, 216, 41, 31**
Finnish:	
09.30–10.00	(Sun.) 375
17.15–18.30 / 19.00–19.45	375, 49, 41, 31
French:	
06.00–06.30	49, 41, 31, 25
11.30–12.00	25, 16
18.00–19.00	49, 41, 31, 25**
19.30–20.30	216, 41, 31, 25**
21.00–21.30	216, 49*, 41, 31
German:	
06.30–06.45	49, 41, 31, 25
10.30–11.00	25, 16, 13
12.45–13.15	25, 16
16.00–17.00 / 17.30–18.00	227, 216, 49, 41
18.00–18.30	227, 216, 49, 41, 31**
18.30–20.00	227, 49, 41
20.30–21.30	227, 49, 41
German for Austria:	
17.00–18.00	321, 49, 41, 31
19.00–20.00	321, 49, 41, 31

	m.b.
Greek:	
07.00–07.15	31, 25, 19
14.00–14.30	25, 19
16.30–17.00	337, 41, 31, 25**
18.30–19.00	257, 41, 31, 25**
20.00–20.30	321, 257, 49, 41
Hungarian:	
18.30–19.00	337, 49, 31, 25
20.30–21.00	337, 257, 49, 41, 31
Italian:	
06.00–06.14	41, 31, 25
11.15–11.30	25, 16
17.30–18.30	49, 41
19.00–20.00	49, 31, 25
20.00–20.30	49, 41, 31, 25
21.00–21.30	337, 49, 31, 25
Macedonian:	
19.00–19.30	337, 257, 41, 31
Norwegian:	
18.30–19.00 / 20.15–20.45 / 21.15–21.30	375, 49, 41, 31
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21.00–21.30	257, 49, 41, 31
Portuguese:	
21.00–21.30	49, 41, 31**
21.30–22.00	49, 41, 31
Rumanian:	
08.00–08.30	25, 19
17.00–17.30	337, 257, 49, 41, 31
Serbo-Croatian:	
05.00–05.14	41, 31, 25
11.00–11.15	25, 16
13.45–14.00	25, 19
18.30–19.00	321, 49, 41, 31
19.30–20.00	257, 41, 31
20.30–21.15	321, 49, 41 (301 m from 21.05)
21.30–22.00	337, 321, 301, 257, 49, 41, 31
Slovenian:	
18.00–18.30	337, 321, 49, 41
21.15–21.30	321, 301, 49, 41
Spanish:	
12.30–12.45	25, 16
18.00–18.30	41, 25

m.b.
20.00–21.00 49*, 41, 31 (25 m from 20.30)
21.30–22.30 49, 41, 31, 25

Swedish:
17.00–17.15 } 375, 49, 41, 31
19.45–20.15 }
20.45–21.15 }

Concert:
21.30–22.30 337, 321, 301, 49, 41, 31, 25**

TO NEAR & MIDDLE EAST

Arabic: m.b.
04.30–05.00 41, 31, 19
11.00–11.30 25, 19, 16, 13
15.30–16.00 41, 31, 25
17.30–18.00 347, 309, 60, 49, 41, 25**
18.00–19.00 309, 41, 25**
19.00–21.00 309, 60, 49, 41, 25**

Persian:
09.30–09.55 } 25, 19, 16
11.00–11.55 }
14.45–15.25 347, 309, 60, 49, 41, 31, 25
16.30–17.25 347, 309, 60, 49, 41
18.30–19.00 347, 60, 49, 31

Pushtu (to Afghanistan):
15.00–15.30 31, 25
16.30–17.30 25, 19, 16**

Turkish:
10.00–10.30 } 25, 19, 16
13.30–14.00 }
15.30–16.25 337 (from 16.00) 309, 60, 49, 41, 31
18.00–18.30 347, 257, 60 49, 41, 31*, 25**
19.30–20.00 337, 49, 41

TO AFRICA:

English: m.b.
06.30–06.45 31, 25, 19, 16
12.00–12.30 25, 19, 16, 13
16.00–16.30 41, 31, 25
17.00–17.30 49, 41, 31, 25**
19.00–19.30 49, 41, 31, 25**
19.30–20.00 41, 31, 25**

French:
06.45–07.00 31, 25, 19, 16
12.30–13.00 25, 19, 16, 13
18.00–18.30 41, 31, 25**
20.00–21.00 49, 41, 31, 25**

Swahili:
17.30–18.00 41, 31, 25**

TO SO. EAST ASIA

English: m.b.
07.30–08.00 25, 19, 16, 13
11.30–12.00 31, 19, 16, 13[1])
13.00–13.30 31, 19, 16, 13[1])
15.00–15.45 25, 19, 16, 13[1])

Bengali:
08.30–09.15° 25, 19, 16, 13
11.00–11.14 31, 19, 16, 13[1])
13.30–14.15 25, 19, 16, 13
14.15–15.00° 31, 25, 19
°) to Pakistan

Hindi:
10.30–11.00 } 31, 19, 16, 13[1])
12.00–12.30 }
15.45–16.30 25, 19, 16, 13[1])

Tamil:
12.30–13.00 31, 19, 16, 13[1])

Urdu:
09.15–10.00 25, 19, 16, 13
11.15–11.30 31, 19, 16, 13[1])
13.30–14.15 31, 25, 19

Burmese:
10.00–10.30 } 25, 19, 16, 13
12.30–13.00 }
15.00–15.30 19, 16, 13

Indonesian: m.b.
08.00–08.30 }
10.45–11.15 } 25, 19, 16, 13
11.45–12.30 }
13.30–14.30 }

Vietnamese:
22.45–23.00 49, 41, 25
10.30–10.45 25, 16, 13
13.00–13.30 } 25, 19, 16, 13
14.30–15.00 }

TO FAR EAST

Chinese: m.b.
08.30–09.00 547, 477, 238, 41, 31, 25
11.00–11.30 547, 477, 238, 49, 41, 31, 16
12.45–13.15 547, 477, 238, 41, 31, 16

Japanese:
21.30–22.00 1224, 547, 477, 238, 49, 41, 31, 25
08.00–08.30 41, 31, 25, 19, 16, 13
09.30–10.00 547, 477, 238, 41, 31, 25
10.30–11.00 547, 477, 238, 41, 31, 25, 19, 16
12.00–12.45 547, 477, 340, 49, 41, 31, 16
13.15–14.00 } 477, 340, 238,
14.00–14.30 } 49, 41, 31
14.30–15.00 547, 477, 238, 49, 41, 16

Korean:
21.00–21.30 } 547, 477, 238,
22.00–22.30 } 49, 41, 31, 25
09.00–09.30 547, 477, 238, 41, 31, 25
10.00–10.30 547, 477, 238, 41, 31, 25, 19, 16, 13
11.30–12.00 547, 477, 238, 49, 41, 31, 16
14.00–14.30 547, 49, 41, 16

Mongolian:
09.30–10.00 1734, 41[2]), 19, 16[3]), 13
13.15–14.00 1734, 49, 41[2]), 16[3])

TO USA

English (1st Prgr.): m.b.
23.00–00.30 41, 31, 25**
00.30–03.30 41*, 31, 25**
03.30–04.00 41, 31, 25**
04.30–06.00 31, 25**

English (2nd Prgr.):
03.00–03.30 25
03.30–07.30 31, 25
17.30–20.30 (Sun) 49, 41*, 31, 25**

TO LATIN AMERICA:

Portuguese (to Brazil): m.b.
16.30–17.00 25, 16, 13
22.00–22.30 41, 31, 25
22.30–24.00 31, 25

Spanish:
16.00–16.30a 25, 16, 13
23.00–24.00a 41[4]), 31, 25, 19, 16
00.00–02.00a 31, 25, 19, 16
02.00–03.00b 41[4]), 31, 25, 19
03.00–04.00b 41[4]), 31, 25, 19**
a) to So. America. b) to C. America.
*) until 1/3 61. **) from 1/3 61.
[1]) exc. 1/12 60–31/1 61. [2]) only 1/12 60–28/2 61. [3]) exc. 1/12 60–28/2 61. [4]) only 1/12 60–31/1 61.

★ VATICAN STATE ★

L.T.: GMT+1 h. E.C.: 125/220 V., A.C., 45 c/s.

VATICAN RADIO (Rel.)

ADDR.: Vatican Radio, Vatican City. Cable: Vatican Radio. – L.P.: Dir. Gen.: Rev. Prof. Antonio Stefanizzi, S. J. Dir. Prgr.: Rev. F. Ramirez S. J. Dir. Tec.: Dott. Ing. Tullio Gorio.

STATIONS: Medium Waves:
HV2 782 kc/s 383.6 m 2 kW – HV100 1529 kc/s 196.2 m 100 kW
Short Waves: 5/25/50/100 kW.

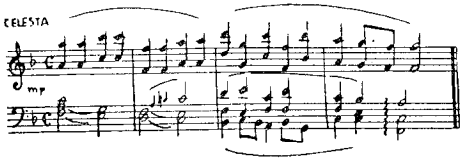
kc/s	m	kc/s	m	kc/s	m	kc/s	m
3955	75.85	7280	41.21	15120	19.84	21500	13.95
5968	50.27	9550	31.41	15290	19.62	21515	13.94
6005	49.96	9645	31.10	15385	19.50	21740	13.80
6030	49.75	9660	31.06	17720	16.93	25740	11.66
6190	48.47	11685	25.67	17735	16.92	25780	1.164
7250	41.38	11740	25.55	17840	16.82		
7270	41.27	11940	25.13	17860	16.80		

The wavelengths are subject to change with seasonal variations, or to avoid interference.
FM: 93.30, 96.30 mc/s 0,5 kW.

PROGRAM SCHEDULE: Nov./Apr. kc/s

Abyssinian:	16.45 Mo. Wed. Fri.	15120, 17840, 21515, 1529
Albanian:	20.30 Tues. Thurs. Sat.	7250, 1529
Arabic:	16.45 Sun. Tues. Thurs. Sat.	11740, 15120, 17840, 1529
Bulgarian:	17.30 Tues. Thurs.	9645, 11740, 15120, 1529
	11.00 Sun.	9645, 11740, 15120, 1529
Chinese:	22.30 Tues. Thurs. Sat.	9645, 15120
Croat:	17.45 Sun. Mo. Tues. Wed. Fri.	7250, 9645, 1529
Czech:	12.30 D.	9645, 11740, 15120, 1529
	19.30 D.	6190, 7250, 9645, 1529
Dutch:	21.15 Sun. Mo. Wed. Fri.	7250, 9645, 11740, 1529
English:	15.00, 18.15 D.	9645, 11740, 15120, 1529
	16.00 Mo. Wed. Sat.	17840, 21515 (Ind. Pak. Ceylon)
	10.30 Mo. Wed. Fri.	17840, 21500 (C. So. Sf.)
	22.30 Mo. Wed. Fri.	11740, 15120 (Philippines)
French:	11.45, 14.30 D.	9645, 11740, 15120, 1529
	19.15 D.	7250, 9645, 11740, 1529
	11.00 Mo. Wed. Fri.	17840, 21500 (Equ. Af., Congo)
German:	12.45, 14.45 D.	9645, 11740, 15120, 1529
	19.45 D.	7250, 9645, 11740, 1529
Hungarian:	13.00 D.	9645, 11740, 15120, 1529
	21.00 D.	6190, 7250, 9645, 1529
Italian:	13.30 D.	6190, 7250, 9645, 11740, 1529
	18.33 D.	6190, 7250, 9645, 11740, 1529
	16.00 Fri.	6190, 7250, 9645, 1529
Japanese:	21.45 Mo. Wed. Fri.	11740, 15120
Latin:	11.30, 16.30 Tues. Thurs. Sat.	7250, 9645, 11740, 15120, 1529
	21.15 Tues. Thurs. Sat.	6190, 7250, 9645, 11740, 1529
	20.00 D. (H. Rosary)	6190, 7250, 9645, 11740, 1529
Latvian:	17.30 Mo. Fri.	9645, 11740, 15120, 1529
Lithuanian:	07.30 Sun.	9645, 11740, 15120
	17.15 D.	9645, 11740, 15120, 1529
Polish:	12.15, 15.15 D.	9645, 11740, 15120, 1529
	19.00 D.	7250, 9645, 11740, 1529
Portuguese:	15.30 D.	9645, 11740, 15120, 1529
	20.30 D.	9645, 11740, 15120
	11.00 Tues. Thurs. Sat.	17840, 21500 (Angola-Mozab.)
	23.00 D.	17860, 21515 (for Brazil)
Rumanian:	17.30 Sun. Wed. Sat.	9645, 11740, 15120, 1529
Russian:	18.00 D.	9645, 11740, 15120, 1529
Slovak:	12.00 D.	9645, 11740, 15120, 1529
	20.15 D.	6190, 7250, 9645, 1529
Slovene:	17.45 Thurs. Sat.	7250, 9645, 1529
	20.30 Mo. Fri.	7250, 1529
	10.45 Sun.	9645, 11740, 1529
Spanish:	14.15, 20.45 D.	9645, 11740, 15120, 1529
	23.30 D.	17860, 21515 (for So. Am.)
	00.00 D.	11740, 17860 (for C. Am.)
	00.30 D.	11740, 15120 (for N. Am.)
Swedish, Danish, Norwegian:	20.30 Wed. Sun.	9645, 11740, 1529
Ukranian:	17.00 Sun. Tues. Thurs. Fri.	11740, 15120, 17840, 1529
White Ruth:	17.00 Mo. Wed. Sat.	9645, 11740, 15120, 1529
Musical Concert:	16.00 Thurs.	6190, 7250, 9645, 11740, 1529
Sun.:	08.30 Mass in Latin Rite Music during the Mass. Gospel homily for 15 min. after Mass, alternatively in different languages	9646, 11685, 15120

Oriental Liturgy: 09.30 (Homily in respective languages) 9646, 11685, 15120, 1529
OPENING SIGN.: The bells of St. Peter's.
ANN.: "Laudetur Jesus Christus. Praised be Jesus Christ. This is Vatican Radio".
INT.-SIG.: Carillon Melody "Christus Vincit" executed on the celeste with orchestral accompaniment. – **V.** by QSL-card.



V. by QSL-card or letter. – **PUB.:** Prgr.sched. free on request.

★ YUGOSLAVIA ★

L.T.: GMT+1 h. – **Pr.L.: Serbo-Croat:** Beograd, Niš, Novi Sad, Priština, Zagreb, Sljeme, Split, Rijeka, Osijek, Dubrovnik, Sarajevo, Titograd; **Slovenian:** Ljubljana, Maribor, Koper, Celje; **Macedonian:** Skopje, Bitola – **Po.:** 18.667.000. – **Rcvrs.:** 1.309.000 – **E.C.:** 220 V., A.C., 50 c/s.
ADDR.: Radiotelevision Yougoslave, Beograd, Knez Mihajlova 19. – **L.P.: Radiotelevision Yougoslave:** Pres. Adm. Committee: D. Popovič. Vice-pres.: Mrs. V. Malinska. Secr. Gen.: Dr. I. Pustišek. Head For. Rel.: Mrs. Olivera Vojvodič. Pres. Prgr. Com.: S. Majstorovič, D. Seliger. Pres. Jur. Com.: Dr. I. Balen. Pres. Techn. Com.: Eng. S. Rojec. Pres. Techn. Com. for TV: D. Strbac. – **Radiotelevision Beograd:** Dir. Gen.: D. Popovič. Dir. Prgr.: V. Pešič. – **Radiotelevision Zagreb:** Dir. Gen.: I. Šibl. Dir. Prgr.: D. Strbac. – **Radiotelevision Ljubljana:** Dir. Gen.: D. Seliger. Dir. Prgr.: Dr. E. Tomc. – **Radio Skopje:** Dir.: Mrs. V. Malinska. – **Radio Sarajevo:** Dir.: Mrs. D. Kurtovič. – **Radio Titograd:** Dir.: B. Nilevič. – **Radio Novi Sad:** Dir.: M. Olajoš. – **Radio Pristina:** Dir.: I. Mulja.

HOME SERVICE

MEDIUM WAVES:

Main stations	kc/s	m	kW		kc/s	m	kW
Sarajevo	611	490.9	100	Ljubljana I	917	327.1	135
Beograd	683	439.2	150	Zagreb	1133	264.7	135
Skopje	809	370,8	135	Novi Sad	1268	236.6	100
Titograd	881	340.5	20	Priština	1412	212.4	20
Local stations:							
Niš	926	324	10	Dubrovnik	1484	202.2	0.5
Rijeka I	1133	264.7	15	Beograd II	1484	202.2	2
Koper	1169	256.6	6	Ljubljana II	1484	202.2	2
Maribor	1412	212.4	5	Sljeme	1484	202.2	2
Split	1412	212.4	50	Osijek	1484	202.2	2
Bitola	1484	202.2	0.5	Rijeka II	1484	202.2	2
Celje	1484	202.2	0.05				

SHORT WAVES:
Beograd 10/10/50/100 kW

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6100	49.18	7200	41.67	9505	31.56	11735	25.56
6150	48.78	7240	41.66	9620	31.18	15240	19.69

FM:	mc/s	kW		mc/s	kW		mc/s	kW
Beograd	94.5	48	Nanos	92.9	0.35	Skopje	94.5	0.35
Beograd	98.5	0.35	Novi Sad I	90.5	48	Titograd	96.1	0.35
Hum	91.3	0.35	Novi Sad II	87.7	3.75	Vlašič	98.1	0.35
Koper	97.7	0.35	Pohorje	88.5	0.35	Vodno	97.3	1.5
Kum	90.1	1.5	Psunj	98.9	2.5	Zagreb	92.1	1.5
Ljubljana	94.1	1.5	Sarajevo	95.7	2.5	Niš	96.9	0.5
Lovćen	94.9	0.35						

HOME SERVICE

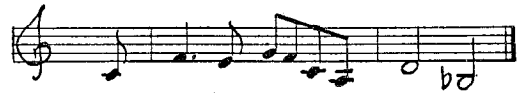
R. Beograd: W. 03.00–23.05 (Sat. 24.00). Sun. 04.00–23.05. **N., Comm.:** 03.03, 04.00, 05.00, 07.00, 09.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.30, 20.00, 21.00, 23.00. – **Wrp.:** 06.30, 09.00, 14.00, 21.00.
R. Zagreb: W. 04.00–23.05 (Sat. 24.00). Sun. 05.00–23.05. **N., Comm.:** 04.00, 05.00, 06.00, 07.00, 08.30, 10.00, 12.00, 14.00, 16.00, 18.30, 20.00, 21.00, 23.00. – **Wrp.:** 05.05, 06.05, 08.35, 12.05, 14.05, 21.00.
R. Ljubljana: W. 04.00–23.05, Sun. 05.00–23.05 – **N., Comm.:** 04.05, 05.00, 06.00, 07.00, 09.00, 12.00, 14.00, 16.00, 18.30, 21.00, 22.00, 23.00. – **Wrp.:** 04.05, 05.00, 06.00, 12.00, 18.30, 21.00.
R. Skopje: D. 04.25–22.05.
R. Sarajevo: W. 04.00–07.30, 11.00–23.00. Sun. 04.00–23.00.
R. Titograd: W. 04.00–07.00, 13.00–21.00. Sun. 04.30–21.00.
R. Novi Sad: D. 04.00–23.15.
R. Pristina: W. 04.30–07.05, 11.00–22.00. Sun. 05.00–22.00.

FOREIGN SERVICE

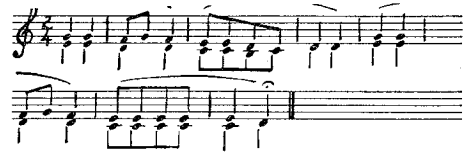
Albanian:	kc/s
14.00–14.30	881, 1412, 9505
18.30–19.00	881, 1412, 7200
Arabic:	
15.00–15.15	6100, 9620
17.30–18.00	6100, 9505
19.45–20.00	6100, 7200, 9505
Bulgarian:	
18.00–18.30	6100, 7200, 9505
20.15–20.30	6100, 7200, 9505
Czech:	
18.30–19.00	1268, 9505
20.30–20.45	6100, 7200, 9505
English:	
15.30–16.00	9505, 11735, 15240
16.45–17.00	7200, 9505, 15240
18.30–19.00	6100, 9505

French:	kc/s
16.30–16.45	6100, 7200, 9505
19.30–19.45	6100, 7200, 9505
German:	
18.00–18.30	6150, 7200
20.45–21.00	6100, 7200
Polish:	
16.00–16.30	6100, 7200, 9505
20.00–20.15	6100, 7200, 9505
Russian:	
17.00–17.30	6100, 7200, 9505
19.00–19.30	6100, 7200, 9505
Spanish:	
21.30–22.00,	6100, 9505, 9620
00.00–00.30	6150, 9505, 7200
01.00–01.30	6150, 9505, 7200

ANN.: Home Service: "Here is Radiotelevision Beograd, ... Zagreb,... ... Ljubljana etc.". – "Ovde Radiotelevizija, Beograd, ... Zagreb, ... Ljubljana etc." – **Foreign Service:** "This is Yugoslavia, Radio Belgrade calling". – "Ici la Yougoslavie, Belgrade vous parle".
INT.-SIG.: Home and Foreign Service: The beginning of the "Internationale" (Radio Belgrade). – **V.** by QSL-card.



Radio Zagreb (Home Service):



★ ALGERIA (French) ★

L.T.: GMT+1 h. – **Pr.L.:** French, Arabic, Kabyl. – **Po.:** 10.143.000 **Rcvrs.:** 500.000. – **E.C.:** 110 V, A.C., 50 c/s.
FRANCE V (Go.)
ADDR.: Direction Regionale Algerie, Radiodiff. Television Française, 21, Boulevard Bru, Alger.

FRENCH NETWORK:

	kc/s	m	kW		kc/s	m	kW
Alger II	980	306.1	200	Colomb Béchar	1169	257.0	1
Touggourt	1070	280.0	1	Bône (evening)	1484	202.2	0.2
Constantine	1142	262.7	20	Bougie (fr.19.30)	1594	188.2	0.6
Oran I	1142	262.7	40	Alger OCI	11835	25.35	50

W.: 05.30–08.00, 09.45–13.00, 14.00–19.45 (Sun. 06.00–19.45) on 980/1142/11835 kc/s; D. 19.45–22.15 on 980/1142/1594/11835 kc/s. – N.: 06.30, 12.00, 19.15, 21.45. – **Wrp.:** 11.58, 19.13.

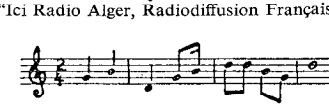
ARABIC NETWORK:

	kc/s	m	kW		kc/s	m	kW
Alger I	890	337.1	200	Constantine II	1304	230	20
Oran II	1304	230.0	40	Alger OC2	9685	30.98	50

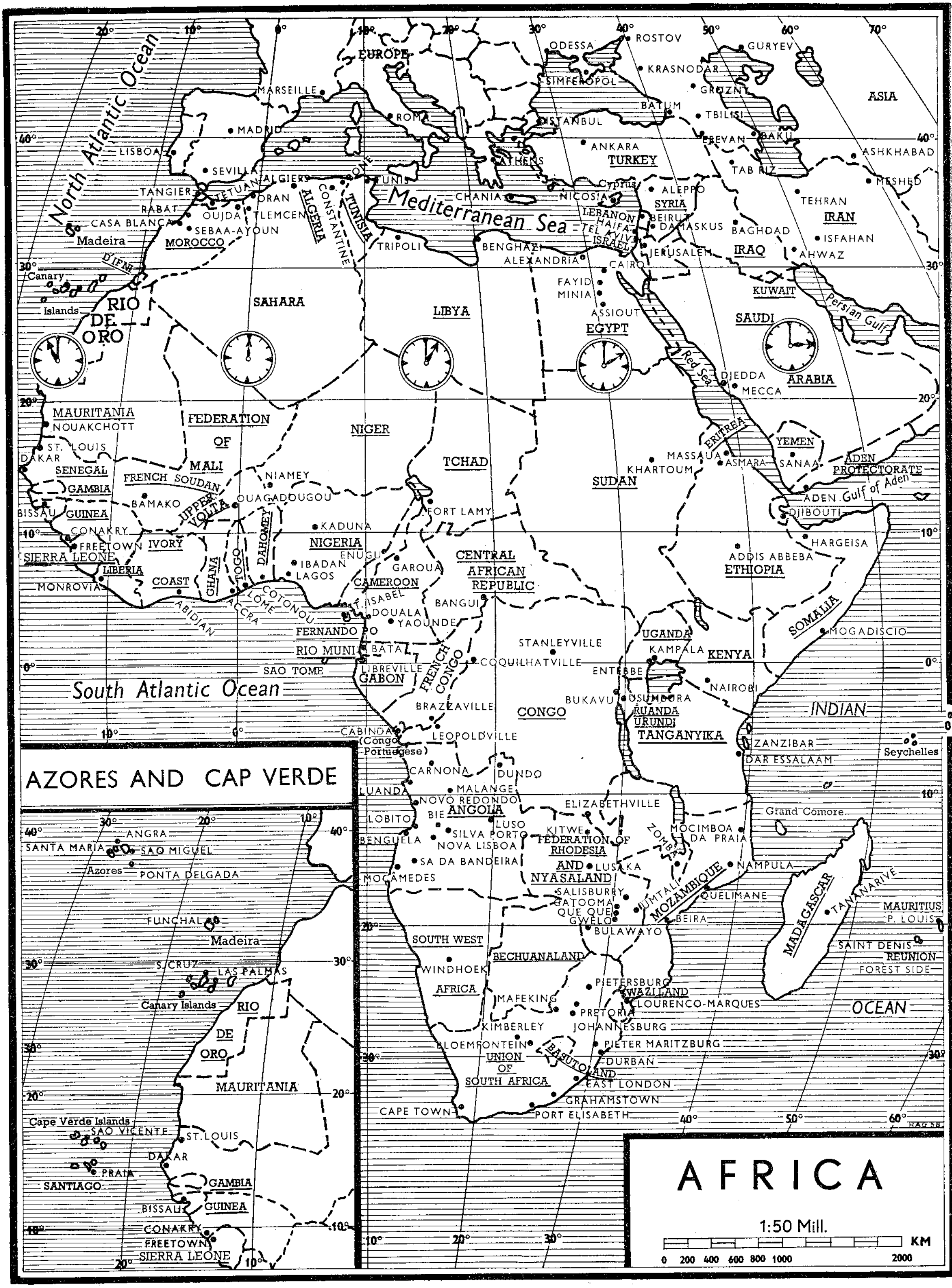
KABYL NETWORK:

	kc/s	m	kW		kc/s	m	kW
Alger III	1421	211	40	Bougie (even.)	1594	188	0.6
Michelet (even.)	1570	191.0	5	Alger OC3	6160	48.70	50

RELAY FROM PARIS: Alger OC4 7170 kc/s 41.84 m 50 kW: 19.00–23.00 in Arabic and Kabyl.
ANN.: F.: "Ici Radio Alger, Radiodiffusion Française".



V. by QSL-card. – **PUB.:** Monthly "Ici Alger".



AFRICA
1:50 Mill.
KM
0 200 400 600 800 1000 2000
AZORES AND CAP VERDE
North Atlantic Ocean
South Atlantic Ocean
Mediterranean Sea
Red Sea
Persian Gulf
Gulf of Aden
INDIAN
OCEAN
EUROPE
ASIA
MARSEILLE
MADRID
LISBOA
SEVILLA
ROMA
ODESSA
ROSTOV
KRASNODAR
GURYEV
SIMFEROPOL
GROZNY
BATUM
TBILISI
ISTANBUL
EREVAN
BAKU
ANKARA
TURKEY
ATHENS
ASHKHABAD
TAB RIZ
MESHED
Cyprus
NICOSIA
CHANIA
ALEPPO
SYRIA
TEHRAN
IRAN
LEBANON
BEIRUT
DAMASKUS
HAIFA
TEL AVIV
ISRAEL
JERUSALEM
BAGHDAD
ISFAHAN
IRAQ
AHWAZ
KUWAIT
SAUDI
ARABIA
DJEDDA
MECCA
YEMEN
SANAA
ADEN
PROTECTORATE
ADEN
TANGIER
RABAT
CASA BLANCA
TETUAN
ALGIERS
ORAN
OUJDA
TLEMCEN
SEBAA-AYOUN
MOROCCO
ALGERIA
CONSTANTINE
TUNIS
TUNISIA
TRIPOLI
BENGHAZI
ALEXANDRIA
CAIRO
FAYID
MINIA
ASSIOUT
EGYPT
Madeira
D'IFNI
Canary
Islands
RIO
DE
ORO
SAHARA
LIBYA
MAURITANIA
NOUAKCHOTT
ST. LOUIS
DAKAR
SENEGAL
GAMBIA
BISSAU
GUINEA
CONAKRY
FREETOWN
SIERRA LEONE
LIBERIA
MONROVIA
FEDERATION
OF
MALI
FRENCH SOUDAN
BAMAKO
UPPER
VOLTA
OUAGADOUGOU
NIAMEY
NIGER
TCHAD
FORT LAMY
IVORY
COAST
ABIDJAN
GHANA
ACCRA
TOGO
LOME
DAHOMEY
COTONOU
KADUNA
NIGERIA
ENUGU
IBADAN
LAGOS
GAROUA
CAMEROON
ST. ISABEL
DOUALA
YAOUNDE
FERNANDO PO
RIO MUNI
BATA
SAO TOME
LIBREVILLE
GABON
FRENCH
CONGO
BRAZZAVILLE
CENTRAL
AFRICAN
REPUBLIC
BANGUI
SUDAN
KHARTOUM
ERITREA
MASSAUA
ASMARA
DJIBOUTI
HARGEISA
ADDIS ABBEBA
ETHIOPIA
SOMALIA
MOGADISCIO
UGANDA
KAMPALA
ENTEBBE
KENYA
NAIROBI
STANLEYVILLE
COQUILHATVILLE
CONGO
BUKAVU
USUMBURA
RUANDA
URUNDI
TANGANYIKA
ZANZIBAR
DAR ESSALAAM
Seychelles
CABINDA
(Congo
Portuegese)
LEOPOLDVILLE
CARNONA
DUNDO
LUANDA
MALANGE
NOVO REDONDO
LOBITO
BIE
ANGOLA
LUSO
SILVA PORTO
NOVA LISBOA
BENGUELA
SA DA BANDEIRA
MOCÂMEDES
ELIZABETHVILLE
KITWE
FEDERATION OF
RHODESIA
AND
NYASALAND
LUSAKA
ZOMBA
MOCIMBOA
DA PRAIA
Grand Comore
NAMPULA
MOZAMBIQUE
QUELIMANE
UMTALI
SALISBURRY
GATOOMA
QUE QUE
GWELO
BULAWAYO
BEIRA
MADAGASCAR
TANANARIVE
MAURITIUS
P. LOUIS
SAINT DENIS
REUNION
FOREST SIDE
SOUTH WEST
WINDHOEK
AFRICA
BECHUANALAND
MAFEKING
PIETERSBURG
SWAZILAND
LOURENCO-MARQUES
PRETORIA
JOHANNESBURG
KIMBERLEY
BLOEMFONTEIN
PIETER MARITZBURG
BASUTOLAND
UNION
OF
SOUTH AFRICA
DURBAN
EAST LONDON
GRAHAMSTOWN
CAPE TOWN
PORT ELISABETH
ANGRA
SANTA MARIA
SAO MIGUEL
Azores
PONTA DELGADA
FUNCHAL
Madeira
S. CRUZ
LAS PALMAS
Canary Islands
RIO
DE
ORO
MAURITANIA
Cape Verde Islands
SAO VICENTE
ST. LOUIS
DAKAR
PRAIA
SANTIAGO
GAMBIA
BISSAU
GUINEA
CONAKRY
FREETOWN
SIERRA LEONE

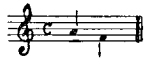
★ ANGOLA (Portuguese West Africa) ★

L.T.: GMT+1 h. – **Pr.L.:** Portuguese. – **Po.:** 4.530.738. – **Rcvrs.:** 100.000. – **E.C.:** 220 V., A.C., 50 c/s.

EMISSORA OFICIAL DE ANGOLA (Go.)

ADDR.: C. P. 1.321, Luanda, Angola. **Te.:** 2192. – **L.P.:** Dir. Gen.: Eng. A. J. Magro. Dir. Prgr.: Dr. A. Diogo jr. Dir. Adm.: Elísio F. dos Santos. Dir. Tec.: J. C. Proença.

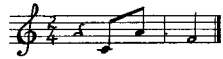
HOME SCE.: CR6RZ.
1350 kc/s 222.2 m 1/3 kW – 9765 kc/s 30.72 m 1 kW
4995 – 60.06 – 3 – – 17795 – 16.86 – 10 –
6025 – 49.79 – 10 –
W.: 11.00–13.30 on 1350, 9765 (11.30–13.30 also 4995). 18.00–21.00 on 1350, 4995, 6025 kc/s 21.00–22.30, 17795 kc/s. – **Sun.:** 08.00–11.00 on 1350, 4995 kc/s 11.00–17.00, 18.00–21.00 on 1350, 4995, 6025 kc/s 21.00–22.30 17795 kc/s.
N., Comm., Wrp.: 11.15, 12.00, 18.05, 19.00, 22.15. – **Actualities from Angola and Metropolitan Portugal: Sun.:** 12.15, D. 19.15; **Tourist Prgrs.:** Fri. 18.30. – **Folklore:** D. 19.45. – **Portuguese Music:** D. 11.45, 13.00, 21.15. – **French:** D. 11.30–12.00 on 9765 kc/s.
ANN.: "Emissora Oficial de Angola-Provincia Portuguese de Africa". **V.** by QSL-card.

INT.-SIG.: 

RADIO CLUBE DE ANGOLA (Comm.)

ADDR.: C. P. 229, Luanda. **Cable:** Radangola. **Te.:** 3448. – **L.P.:** Pres.: Com. M. de Albuquerque e Castro. Secr., Dir. Prgr.: Eng. A. M. da Costa. Production Mgr.: A. dos Santos e Sousa. Dir. Tec.: Eng. A. Palmeiro. Dir. Adm.: J. Teles.

HOME SCE in Portuguese: Call: CR6---. **W.:** 06.00–07.00, 11.00–13.30, 17.00–22.00. **Sun.:** 08.00–13.30, 16.00–21.00.
RN 4869 kc/s 61.60 m 1 kW – RL 9632 kc/s 31.15 m 1 kW – RA 7142 kc/s 42.01 m 0.25 kW.
N.: D. 06.30, 12.00, 19.00, 21.50. – **Mbg.:** Thurs. 20.00. – **Wrp.:** D. 12.10, 19.10. – **Request Prgr.:** W. 13.00, Thurs. 20.15, Sun. 09.30, 16.00.
ANN.: "Luanda, capital de Angola, provincia de Portugal em Africa, fala Rádio Clube de Angola, a "vossa estação". ". – **V.** by QSL-card. – **PUB.:** Weekly sched. on request.

INT.-SIG.: 

RADIO CLUBE DE BENGUELA (Comm.)

ADDR.: C. P. 19, Benguela. – **L.P.:** Dir. Gen.: Eng. M. B. Farinha. Dir. Tec.: J. C. da Luz.
HOME SCE. in Portuguese: "A Voz de Benguela". **Call:** CR6---
RF 5042 kc/s 59.48 m 1 kW – RF 9502 kc/s 31.57 m 1 kW
RB 7161 – 41.89 – 0.15 –
W.: 05.45–06.45, 11.00–13.00, 17.00 (Sat. 16.00)–21.30. **Sun.:** 09.30–14.00, 16.00–20.00. – **N.:** W.: 06.30, 11.30, 18.30, 21.25, Sun. 13.30, 19.55.

ANN.: "Radio Clube de Benguela – uma das emissoras angolanas". "This is the Voice of Benguela". – **INT.-SIG.:** Solo on Kissange, a native instrument. – **V.** by QSL-card. – **F.PL.:** Television. – **PUB.:** Prgr.sched. 6 editions yearly.

RADIO CLUBE DO BIÉ (Comm.)

ADDR.: C. P. 33, Silva Porto.
HOME SCE.: CR6RO 7105 kc/s 42.22 m 1 kW:
11.00–13.00, 16.30–21.30.
ANN.: "Radio Clube do Bié". – **INT.-SIG.:** Guitar. – **V.** by QSL-card

RADIO CLUBE DE CABINDA (Comm.)

F.I.: By payments from members, adv. and different authorities. – **ADDR.:** C. P. 116, Cabinda. **Cable:** Radio Clube de Cabinda. – **L.P.:** Dir. Prgr.: Joaquim S. Berenguel. Secr.: J. A. Saraiva Serrano. Treasurer: J. Constantino.

HOME SCE.: CR6RW 5055 kc/s 59.37 m 1 kW: **D.** 11.00 (Sun. 09.00)–13.00, 17.30 (Sun. 17.00)–21.00 (Sun. 20.00). – **N.:** 08.00, 10.00.
ANN.: "Aqui Cabinda, Angola, Provincia Portuguesa d'Africa Transmito o Rádio Clube de Cabinda". – **INT.-SIG.:** Guitar and Gong. – **V.** by QSL-card or letter.

RADIO CLUBE DE CONGO PORTUGUÊS (Comm.)

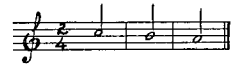
ADDR.: C. P. 140, Carmona. **Te.:** 26. – **L.P.:** Pres.: M. J. M. Pinto. Dir. Tec.: A. C. Carvalho.
HOME SCE.: CR6U 6135 kc/s 48.90 m 1 kW:
W. 06.00–07.00, 11.00–13.00, 18.00–21.30. **Sun.** 08.00–10.00, 12.00–21.30.
ANN.: "R. Clube do Congo Português, Uma Voz de Angola ao Serviço de Portugal". – **V.** by letter.

RADIO DIAMANG (Priv. O.: Comp. de Diamantes de Angola).

ADDR.: R. Diamang, Dundo. **Cable:** Diamang, Portugália. – **L.P.:** Dir. Gen.: J. M. de Noronha Feyo. Dir. Tec.: J. M. Pequito.
HOME SCE.: Call CR6--- 1 kW. – **W.:** 18.00–19.30. **Sun.:** 11.00–12.30
RG 4770 kc/s 62.89 m – RR 7070 kc/s 42.42 m
RI 9612 – 31.21 – – RR 6870 – 43.63 –
ANN.: "Dundo, Africa Ocidental Portuguesa. Radio Diamang, Estação Emissora da Companhia de Diamantes de Angola". – **INT.-SIG.:** At opening "marimba" solo (native instrument of percussion similar to the xylophone – **V.** by QSL-card. Re's to be written in P, E or F.

RADIO CLUBE DO HUAMBO (Comm.)

FI. by adv. and small Go.-subsidies.
ADDR.: C. P. 125, Nova Lisboa. **Cable:** Radihuambo. **Te.:** 41. – **L.P.:** Pres.: Dr. E. Morais. Dir. Prgr.: S. Coelho. Dir. Tec.: M. Santos.
HOME SCE.: CR6-RD
4851 kc/s 61.84 m 1 kW: 06.00–07.00, 17.30–20.30
7152 – 41.94 – 0.5 – : 06.00–07.00, 17.30–20.30
9665 – 31.04 – 1 – : 06.00–07.00, 11.00–13.00, 17.30–20.30
11985 – 25.03 – 1 – : 11.00–13.00, 15.30–19.30 (20/5-20/11)
FOREIGN SCE. in English & German:
19.30–20.00 on 7170 kc/s (41.84 m) and 4820 kc/s (62.24 m) to Rhodesia, Union of So. Africa, S.W. Africa.
ANN.: "Aqui Nova Lisboa, R. Clube do Huambo, Uma voz Portuguesa em Africa". "This is the R. Club of Huambo, Nova Lisboa, a Portuguese voice in Africa". – **V.** by letter.

INT.-SIG.: 

RADIO CLUBE DE HUILA (Comm.)

ADDR.: C. P. 111, Sá da Bandeira. – **L.P.:** Pres.: Dr. E. Fernandes. Dir. of Production: C. Sanches. Dir. Tec.: L. Rocha.
HOME SCE.:
CR6RH: 5024 kc/s 59.71 m 1 kW: 06.15–07.15, 11.15–12.45, 18.00.–21.00. 9755 kc/s 30.76 m 1 kW: Sun. 11.15–11.30.
ANN.: "Radio Clube de Huila". – **INT.-SIG.:** First movements from "Minho". – **V.** by QSL-card.

RADIODIFUSORA LOBITO (Comm.)

ADDR.: P. O. Box 103, Lobito. **Cable:** Radiodifusora. – **L.P.:** O. Dir.: A. de Carvalho.
HOME SERVICE: CR6AA 1 kW.
5033 kc/s 59.59 m: 16.00–20.00 in **Portuguese, English.**
7115 kc/s 42.16 m: 06.45–07.45, 11.30–12.45 in **Portuguese.**
ANN.: P.: "Lobito, Angola, Africa Ocidental Portuguesa". – **E.:** "This is Lobito, Angola, Portuguese W. Africa, Short Wave St. CR6AA". – **INT.-SIG.:** Gong notes. – **V.** by QSL-card.

RADIO CLUBE DE MALANJE (Comm.)

ADDR.: C. P. 83, Malanje.
HOME SCE.: CR6RE 7245 kc/s 41.40 m 0.25 kW.
W.: 06.00–07.00, 11.00–13.00, 17.30–21.00. **Sun.:** 07.00–10.00, 12.00–21.00. – **ANN.:** "Radio Clube de Malanje". – **INT.-SIG.:** Guitar. – **V.** by QSL-card.

RADIO CLUBE DE MOÇÂMEDES (Comm.)

ADDR.: C. P. 174, Moçâmedes. **Cable:** Rádioclube. **Te.:** 36. – **L.P.:** Pres.: R. Radich Junior. Prod. Mgr.: C. Meleiro. Dir. Tec.: L. Sena.
HOME SCE.: CR6RM 7230 kc/s 41.49 m 0.35 kW.
W.: 06.00–07.30, 11.00–13.30, 17.00–21.00, Sun.: 07.00–09.00, 11.00–14.00, 16.00–20.00.
N.: 06.30, 11.30, 12.00, 12.30, 18.00, 19.00, 20.00. – **Actualities from Angola: Sun.** 12.00, 19.00. – **Wrp.:** 12.00, 19.00. – **L.L.:** "French by R." Mo., Wed., Fri. 17.30. – **Port. Music:** 06.05, 11.05, 18.05.
ANN.: "Aqui Portugal! Transmite o R. Clube de Mocâmedes, em Angola, Provincia Portuguesa de Africa". – **INT.-SIG.:** At opening: "Monumental", folklore music piece played on accordion.

RADIO CLUBE DO MOXICO (Comm.)

ADDR.: C.P. 74, Luso. – **L.P.:** Pres. Eng.: F. J. Marçal Cameira. Vice Pres.: E. S. Abreu. Secr.: F. M. da Costa. Dir. Tec.: A. Caratão.
HOME SERVICE: CR6RV 5137 kc 58.40 m 1 kW: 05.30–07.00, 11.00–12.30, 17.30–21.00. Sun. 10.00–13.00, 16.30–21.00. – **N.:** 06.45 (W), 12.15, 19.00, 20.50. – **ANN.:** "Rádio Clube do Moxico em Luso, Angola, Província Portuguesa em Africa". – **V.** by letter.

RADIO CLUBE DO SUL ANGOLA (Comm.)

ADDR.: C. P. 56, Lobito.
HOME SCE.: CR6RK 3603 kc/s 80.47 m 0.75 kW: 11.00–13.00, 17.30–22.00. – **INT.-SIG.:** 4 notes on guitar from "Maria da Fonte".

RADIO CLUBE DO CUANZA SUL (Comm.)

ADDR.: C. P. 10, Novo Redondo. – **L.P.:** Pres.: A. R. Rodrigues. Adm.: A. A. Ferreira. Asst. Tec.: J. Vilela.
HOME SCE.: W. 11.00–13.00, 17.00–22.00. Sun. 06.00–10.00, 11.00–14.00, 17.00–19.30. – **N.:** W. 11.30, 18.30.
CR6RY 4782 kc/s 62.74 m 1 kW – CR6RP 7285 kc/s 41.18 m 0.2 kW.

ANN.: "R. Clube do Cuanza Sul em Novo Redondo, Angola, Provincia Portuguesa da Africa". – INT.-SIG.: Guitar (Variations No 1 in B-minor by Bach). – V. by QSL-card.

RADIO ECLESIA (Catholic)
ADDR.: C. P. 156, Luanda.
HOME SERVICE: CR6RB:
1010 kc/s 297.0 m 1 kW } 05.30–07.30, 10.00–13.00 14.00–16.00
11745 – 25.54 – 4 – } 17.30-20.30 Sun. 07.00-09.30 11.00-18.00
N. W. 06.00, 12.00, 19.00
ANN.: "Luanda, Provincia Portuguesa de Africa Rádio Eclésia, Emissora Católica de Angola". – INT.-SIG.: Music from "A Treze de Maio". – V. by QSL-card

★ BECHUANALAND (British Protectorate) ★

L.T.: GMT+2 h. – Pr. L.: English – Po.: 336.000 – Rcvrs.: 2000.
ADDR.: ZNB Broadc. St., Box 258, Mafeking.
ZNB 5900 kc/s 50.84 m 1 kW.
D.PRGR.: 11.00–12.00, 17.00–19.30. – V. by QSL-card. R. p.

★ CAMEROON (Republic) ★

L.T.: GMT+1 h. – L.: French, Vernaculars – Po.: 3.200.000 – Rcvrs.: 100.000.

RADIO YAOUNDE (R. Cameroon I-Go.)
ADDR.: B. P. 281, Yaoundé. Te.: 3719. – L.P.: Dir. Cameroon Broadc.: M. Black.
HOME SCE.: Mo.-Fri.: 05.30–07.30, 11.15–13.00, 17.00–21.00. Sat. 05.30–07.30, 11.15–22.00. Sun. 05.30–22.00.
1286 kc/s 233 m 1 kW: as above
4972.5 – 60.33 – 4 – 05.30–07.30, 16.50–22.00.
9660 – 31.06 – 4 – 07.00–16.50.
N.: W.: 06.00, 06.30, 11.45 (Sat. 12.15), 17.00, 18.00, 18.30, 20.55 (Sat. 21.55). Sun.: 06.30, 07.55, 08.55, 12.15, 17.00, 18.00, 18.30, 21.55. – Folklore Music: Mo. 18.05, Thurs. 17.05, Fri. 06.05, Sat. 11.15.
ANN.: F.: "Ici Yaoundé, Radiodiffusion du Cameroun" – INT.-SIG.: Local music or Tam-Tam rythme – V. by QSL-card or letter. Rp. Re. in English or French. – PUB.: Prgr. schedule free on request.

RADIO DOUALA: (R. Cameroon II – Go.)
ADDR.: B. P. 986, Douala. Cable: Radio Douala. Te.: 4575 – L.P.: Dir.: F. Mouasso-Priso.
HOME SCE. in French, Douala, Bassa, Bamiléké.
1448 kc/s 207.2 m 1 kW } W. 05.30–07.30, 11.15–12.30, 17.00 (Sat.
6115 – 49.06 – 1 – } 15.00)–21.00. Sun. 07.00–21.00.
N. in French: 05.35(W), 06.30(W), 08.20(Sun.), 10.45(Sun), 11.45 (Mo.-Fri.), 12.15 (Sat., Sun.), 18.30(D).
ANN.: F.: "Ici Douala, Radiodiffusion du Cameroun" – INT.-SIG.: By opening and close down and 11.15 and 17.00: Hymn of Cameroon: "O Cameroun berceau de nos ancêtres" fanfare.

V. by QSL-card or letter. R.p. – PUB.: Prgr. sched. free on request.

R. GAROUA (R. Cameroon III – Go.)
ADDR.: B. P. 103, Garoua. – L.P.: Dir.: G. Derrier.
HOME SCE. in French, Haoussa, Foulfouldé: W. 11.15–13.00 (Fri. 13.30), 17.30 (Thurs., Sat. 17.00)–21.00 (Sat. 21.30). Sun.: 09.30–13.00, 17.00–21.30.
1348 kc/s 224.0 m 1 kW: 09.30–21.30
5010 – 59.88 – 4 – : 17.00–21.30
7240 – 41.44 – 4 – : 09.30–13.30.

N. in French: 11.30, 18.00 (Sun. 18.15), 20.50. N. in Vernaculars: 12.50, 19.00 – Haoussa Music: 19.10.
ANN.: "Ici Garoua, Radiodiffusion du Cameroun". V. by QSL-card.

★ CANARY ISLANDS (Spanish) ★

L.T.: GMT. – Pr. L.: Spanish, English. – Po.: 1.200.000. – Rcvrs.: 400.000. – E.C.: 115/190 V, A.C., 50 c/s.

RADIO LAS PALMAS (Comm.)
ADDR.: Calle Triana 134 Dpdo., Las Palmas. – L.P.: Dir.: P. Pastor S.
HOME SCE.: EAJ50 1313 kc/s 228.5 m 0.5 kW: D. 09.00–24.00.
ANN.: "Transmite la Estacion E.A.J. 50 Radio Las Palmas". – INT.-SIG.: Pasodoble "Islas Canarias". – V. by QSL-card.

RADIO CLUB TENERIFE (Cultural and Comm.)
ADDR.: Apt. de Correos 225, S. Cruz de Tenerife.
L.P.: Pres.: J. G. Sanjuan. Dir. Tec.: P. Padrón.
HOME SCE.: Call EAJ....
43 1412 kc 212.4 m 0.4 kW 12.00–17.00, 18.00–23.00 } occ. sat.
8AB7295 kc 41.12 m 0.25 kW 17.00–78.00, 21.00–23.00 } 01.00
ANN.: "R. Club Tenerife, en Santa Cruz de Tenerife, Islas Canaris." – INT.-SIG.: Opening "Los Voluntarios"; from 17.00 "Islas Canarias" (pasodoble). – V. by QSL-card.

RADIO ATLANTICO (Broadc. System of the Falange)
ADDR.: Calle General Franco 50, Las Palmas. – L.P.: Dir. José A. Gutiérrez Peña. Dir. Tec.: J. G. Bautista.
HOME SCE. in Spanish & English:
1500 kc/s 200 m 2 kW: D. 08.00–09.00, 11.00–15.30, 18.00–24.00.
7000 kc/s 42.86 m, 9490 kc/s 31.61 m 1 kW: D. 22.00–24.00.
Nat. music: 22.00–23.00. – N.: 23.00. – Mbg.: 23.15–23.30. – Prgr. in English: Sat. 23.00–24.00 on 7000, 9490 kc/s.
ANN.: English: "This is R. Atlantico". – Spanish: "Transmite Radio Atlantico". – INT.-SIG.: Canary guitar-accords. – V. by QSL-card. – F.PL.: s.w.-tr. 2 kW.

RADIO JUVENTUD DE CANARIAS (C.A.R.)
ADDR.: Castillo 27, Santa Cruz de Tenerife.
L.P.: Pres.: M. A. Y. Contreras. Dir. Tec.: W. Ramos.
HOME SCE.: EFJ57 1248 kc/s 240 m 1.2 kW: 08.00–09.00, 12.00–16.00, 17.50–24.00.
ANN.: "Radio Juventud de Canarias".
INT.-SIG.: The first notes from "Arroro canario".
STATIONS UNDER CONSTRUCTION:
R. Nacional de Espana, Santa Cruz de Tenerife. – R. Orotava, Valle de la Orotava, Tenerife. – R. La Palma, Isla de la Palma. This station has been reported on 7390 kc from 21.00–23.00.

★ CAPE VERDE ISLANDS (Portuguese) ★

L.T.: GMT÷2 h. – Pr.L.: Portuguese, English. – Po.: 182.000. Rcvrs.: 5000. – E.C.: 220/240 V., D.C.

RADIO CLUBE DE CABO VERDE (Pr.), C.P. 26, Praia.
L.P.: Dir.: T. L. da Cruz Esteves. Dir. Tec.: H. Brito.
HOME SCE.: CR4AA 3960 kc/s 75.76 m 5 kW: 20.00–22.00.
N.: 21.40. – Wrp.: 21.35.
ANN.: "Aqui Praia, estacão de ondas curtas do R. Clube de Cabo Verde". – INT.-SIG.: Four notes on marímba. – V. by QSL-card.

RADIO CLUBE MINDELO (Pr.)
FI.: By state, adv. and private help. – ADDR.: C.P.101, S. Vicente.
L.P.: Pres.: A. Feijóo Pereira. Dir. Tec.: J. de Azevedo.
HOME SCE.: CR4AB 4755 kc/s 63.09 m 0.15 kW: 20.00–22.00.
ANN.: "Aqui, S. Vicente de Cabo-Verde, Provincia Ultramarina de Portugal, Fala-vos a Estaçao Emissora do Rádio Clube Mindelo, no comprimento de onda de...". – V. by QSL-card or letter. – F.PL.: 2 sw.-st.'s in 1961 (1 and 0.25 kW).

R. BARLAVENTO (Local club, non-comm.). ADDR.: C. P. 29, S. Vicente. – HOME SCE.: CR4AC 3960 kc/s 75.76 m 1 kW: 22.00–24.00. – V. by QSL-card.

★ CENTRAL AFRICAN (Republic) ★

L.T.: GMT+1 h. – Pr.L.: French, Vernaculars. – Po.: 1.177.000. – Rcvrs.: 4.500. – E.C.: 220 V., A.C., 50 c/s.

RADIO BANGUI (Go.)
FI.: By the French and Central African State. – ADDR.: B. P. 700, Bangui. Te.: 219. – L.P.: Dir.: P. Pouillon.
HOME SCE.: in French & Vernaculars:
W. 05.30–06.30, 11.30–12.30, 17.00–20.00. Sun. 07.00–12.00.
1570 kc/s 190.0 m 0.25 kW: as above
5982 – 50.15 – 4 – : W. 05.30–06.30, 11.30–12.30, 17.00–20.00
9515 – 31.53 – 4 – : Sun. 07.00–12.00
N. in French: W. 05.50, 11.35, 18.30. Sun. 08.00, 11.30.
Sango: W. 06.10, 17.15. – Folklore music: Thurs. 18.00, Sun. 10.00.
ANN.: "Ici Bangui". – INT.-SIG.: First seven bars of Central African's hymn, played on the Zanza (a local instrument). V. by QSL-card. Re. in French. – F.PL.: M.w. 1 kW in 1961.

★ COMORES ISLANDS (French) ★

L.T.: GMT+3 h. – Pr.L.: French, Vernaculars. – Po.: 180.000.

RADIO DZAOUDZI (Go.)
ADDR.: L'Administrateur Supérieur du Territoire des Comores, Service de la Radiodiffusion, Dzaoudzi, Grand Comore.
Station at present closed down. A new 1 kW transmitter will probably reopen with daily transmissions on 4960 kc/s. Date for opening not yet fixed.

★ REPUBLIC OF THE CONGO ★

(Capital – Leopoldville)

L.T.: Leopoldville, Coquilhatville GMT+1 h. Elisabethville, Stanleyville, Bukavu, Luluabourg GMT+2 h. – Pr.L.: French, Lingala, Kikongo, Tshiluba, Kiswahili. – Po.: 14.000.000. – Rcvrs.: 105.000. – E.C.: 220 V., A.C., 50 c/s.

RADIODIFUSION NATIONALE DE LA REPUBLIQUE DU CONGO (Go.)
ADDR.: B.P. 3171, Leopoldville. – **L.P.:** Dir.: Charles Athapol.
NATIONAL PROGRAMME (Léopoldville):
9210 kc/s 32.59 m 50 kW
9700 – 30.93 – 50 –
11795 – 25.43 – 50 –
} 05.00–08.00(Sun. 09.00), 15.30–21.00. On 11795 kc/s: 10.00–13.00. (Sat. 15.00), Sun. 09.30–15.00.
FM: 90 mc/s 3.33 m 0.25 kW (all programmes)
N. in French: 05.15, 06.00, 10.30, 11.30, 18.30, 20.50.
ANN.: F.: "Ici Leopoldville, Radiodiffusion Nationale de la République du Congo". – **INT.-SIG.:** Tam Tam (native xylophonebeat).
REGIONAL STATIONS (in French and regional languages).
R. Leopoldville: L.P.: Dir.: C. Matshiaba.
4872 kc/s 61.50 m 7 kW: D. 16.30–20.30.
R. Coquilhatville: ADDR.: B.P. 1061, Coquilhatville. – **L.P.:** Dir.: A. Nzondomyo.
5993 kc/s 50.05 m 10 kW: D. 15.30–20.00.
R. Bukavu: ADDR.: B.P. 475, Bukavu. – **L.P.:** Dir.: B. Mbula.
4834 kc/s 62.06 m 10 kW: 15.30–20.00.
R. Elisabethville: ADDR.: B.P. 1038, Elisabethville.
5956 kc/s 50.37 m 10 kW: 15.30–20.00.
R. Luluabourg: L.P.: Dir.: L. Wanya.
6125 kc/s 48.98 m 10 kW: 16.30–20.30.
R. Stanleyville: ADDR.: B.P. 1745, Stanleyville. **L.P.:** Dir.: G. Lamazani.
6085 kc/s 49.30 m 10 kW: 05.00–07.00, 11.00–13.00, 16.30–21.00.

RADIO COLLEGE (Pr.-Rel.)
FI.: By gifts. – **ADDR.:** B. P. 296, Elisabethville. – **Te.:** 4951. – **L.P.:** Dir. of Collège St. François de Sales.: R. P. Beckers. Dir. Prgr.: R. P. Richard. Dir. Tec.: R. P. Dethier.
HOME SCE. in French, Kiswahili:
OQ2AC 0.25 kW: 3390 kc/s 88.5 m. – 4980 kc/s 60.25 m. – 7200 kc/s 41.67 m. – FM: 96 mc/s 0.05 kW.
W. 11.00–12.00, 15.30–17.30, 18.30–20.00. Sun. 07.00–10.00, 11.30–12.00, 18.30–19.00.
N. in French/Kiswahili: D. 11.30, 18.30. – **Rel.:** Sun. 07.00 (French), Wed. 16.30 (Kiswahili). – **Folklore Music:** Tues. 16.30.
ANN.: F.: "Ici Radio-Collège, station de radiodiffusion privée du Collège Saint François de Sales, à Elisabethville, Katanga".
INT.-SIG.: Open: "Marche du Baron Tzigane" (Joh. Strauss). Close: "Marche Indigo". – **V.** by QSL-card. **PUB.:** R. Collège; monthly.
F. PL.: 1 kW for two freq's, 5 kW for the third, May 1961.

Note: Owing to the unsettled conditions in the Republic of the Congo at the time this edition went to print no details could be obtained concerning any of the other private broadcasting organizations in that country.

★ CONGO (Franco-African Community) ★

L.T.: GMT+1 h. – **Pr.L.:** French, English, Portuguese. – **Po.** 4.824.000. – **Rcvrs.:** 10.000. – **E.C.:** 220 V., A.C., 50 c/s.

RADIO BRAZZAVILLE (Go. – belongs to R.T.F.)
ADDR.: B.P. 108, Brazzaville. **Cable:** Radiodiffusion. – **L.P.:** Dir. Gen.: C. Boissiere. Dir. Adm.: A. Taillade. Dir. Tec.: H. Defroyenne. Dir. Inf.: R. Branellec. Dir. Prgr.: H. de Camaret.

INTERNATIONAL SERVICE

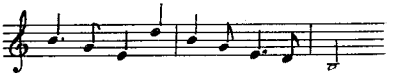
kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
5970	50.25	1.5	9730	30.83	7	15420	19.45	50
7105	42.22	5	9770	30.70	7	15445	19.43	50
7150	41.96	5	11725	25.58	50	17720	16.93	50
9545	31.43	50	11970	25.06	50	21500	13.9	550
9625	31.16	50	15190	19.75	50			

I=Africa (No. & So.); II=No. Am.; III=Madasgascar; IV=We. Africa; V=Australia; VI=Middle East; VII=Far East; VIII=So. Am.

Time	kc/s	Areas	
04.30–07.30	7105, 9730	I/II/IV	F.: 04.30, 05.00, 06.00, 06.45
	15445	I/III/IV	
05.00–07.30	5970	I/IV	E.: 05.15
	11725, 21500	I/IV	
08.30–09.15	15445	IV	E.: 08.30. F.: 09.00.
	21500	I	
11.00–13.05	15445, 17720	III/IV	E.: 11.00 (15445, 11970, 21500)
	21500	I	12.00 (15445, 11970)
11.00–12.20	11970	I	F.: 11.30 (15445, 21500, 7105)
11.20–12.00	7105, 15420	IV	12.45 (15445, 21500)
13.30–15.20	17720, 21500	VII	F. 13.30, 15.00. E.: 14.30.
16.00–18.25	5970, 9770	III/IV	F.: 16.00, 17.30. E.: 17.00.
	11725, 21500	I	
17.20–22.00	15190	III/IV	F.: 17.30, 20.30. E.: 18.30, 19.30.
18.30–22.00	5970, 7150	IV	P. 18.45. F.: 19.00, 20.30.
	9770	III	
	11725	I	
23.15–02.00	11725	II/VIII	F.: 23.35, 00.00. E.: 01.15, P.: 23.00.
23.15–00.15	9625	VII	F.: 23.35
23.15–00.15	9625	VIII	F.: 00.00.

ANN.: F.: "Ici Brazzaville, Radiodiffusion-Télévision Française". E.: "This is Radio Brazzaville, The French Broadcasting Station in Africa". – P.: "Aqui Brazzaville, Radiodifusão Televisão Francesa". – Sp.: "Aqui Brazzaville, Radiodifusion Television Francesa en Africa Ecuatorial".
INT.-SIG.: Five different notes played on a native instrument (Kisanzi) consisting of several vibrating iron bars attached to a wooden box. – **V.** by QSL-card or letter. R.p. – **PUB.:** Prgr.sched. monthly. Free upon request.

RADIO CONGO (Go.)
ADDR.: B. P. 2241, Brazzaville. **Te.:** 2408. – **L.P.:** Dir.: Malonga-Conseiller Direction: R. Haillecourt. Dir. Prgr.: Bitouloulou. Conseiller Prgr.: V. Cleuet. Dir. Tec.: M. Simon.
HOME SERVICE in French: 16.30–21.00 (Sat. 22.00).
1407 kc/s 213 m 0.25 kW – 4843 kc/s 61.95 m 3 kW
N.: 18.30. – **ANN.:** "Ici Radio Congo, Station de Radiodiffusion de la République du Congo émettant de Brazzaville en ondes moyennes sur 213 m, et en ondes courtes sur 61 m 95". – **INT.-SIG.:** Zanzi solo (native instrument).



V. by letter. – **F.PL.:** 4 kW on 4843 kc/s 25 kW on 9605 kc/s.

★ DAHOMEY (Republic) ★

L.T.: GMT+1 h. – **Pr.L.:** French, Vernaculars. – **Po.:** 1.780.000. – **Rcvrs.:** 5.000. – **E.C.:** 230/400 V., A.C., 50 c/s.

RADIO DAHOMEY (Go.)
ADDR.: Radiodiffusion de Dahomey, B.P. 366, Cotonou. **Cable:** Radiodahomey. **Te.:** 402. – **L.P.:** Dir. Gen.: M. J. Bordenave.
HOME SCE. in French, Fon, Yoruba, Dendi, Bariba, Mina:
W. 05.00–06.30, 11.15–13.15 (Sat. 12.00–13.00), 17.00–21.00 (Sat. 15.00–23.00). Sun. 07.00–12.00, 15.00–22.00.
1475 kc/s 203 m 1 kW: as above
7190 – 41.72 – 4 – : 07.00–17.00
4875 – 61.53 – 4 – : 05.00–06.30, 17.00–23.00
N. in French: 06.00 (W), 08.00 (Sun.), 11.40 (Exc. Sat.), 12.40 (Sat.), 19.00, 20.55 (Mo.-Fri.), 22.45 (Sat.) – **Inf. in Vernaculars:** 17.00 (Sun. 17.20, Fri. 18.00), 18.30 (Sun. 18.20, Fri. 19.00). – **Wrp.:** 18.55. – **Folklore:** 17.00–17.50.
ANN.: "Ici Cotonou, Radiodiffusion de Dahomey émettant sur...". – **NIT.-SIG.:** Dahomey Tam-Tam. – **V.** by letter.

★ EGYPT (United Arab Rep.) ★

L.T.: GMT+2 h. (Su. 1/5–30/9 GMT+3 h.). – **Pr.L.:** Arabic. – **Po.:** 26.000.000. – **Rcvrs.:** 1.500.000. – **E.C.:** 110/220 V, A.C., 50 c/s.

U.A.R. BROADCASTING CORPORATION OF CAIRO (Go.)
FI.: By state subsidy and adv. – **AD.:** allowed in Popular-Cultural Prgr.
ADDR.: Offices & Studio Centre I: 4, Sherifein Str., Cairo. – Studio Centre II: 5, Elwi Str., Cairo. **Cable:** "Kahiradio". – **L.P.:** Dir. Gen.: M. A. Hammad. Dep. Dir. Gen.: S. Amer (Engineering, Planning, Transmitting). Dir. Prgr.: A. H. El-Hadidi. Dir. TV: A. H. Younes. Dir. Adm.: M. M. Taifour. Gen. Controller of Research, International Relations, Advertising: M. El-Bassiouni. Dep. Dir. Planning, Transmitting: E. El Kashlan. Dir. of Running: E. Fouad.
STATIONS: Medium Waves.

	kc/s	m	kW		kc/s	m	kW
Cairo III	557	538.6	50	Minia	1079	278.0	2
Cairo IV	620	483.9	300	Luxor	1079	278.0	2
Cairo I	773	388.1	50	Sohag	1142	262.7	2
Cairo V	818	366.7	300	Assouan	1178	254.7	2
Cairo II	926	324.0	100	Alexandria	1277	234.9	10
Assiout	980	306.1	2	Cairo VI	1313	228.5	2

Short Waves: 50/70/90/100 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
6215	48.27	9805	30.60	11990	25.02	15330	19.57	17690	16.96
6250	48.00	11664	25.72	11995	25.01	15390	19.49	17915	16.75
7050	42.55	11670	25.71	12025	24.95	15430	19.44	17920	16.74
9790	30.64	11915	25.18	12030	24.94	15465	19.39		
9795	30.62	11985	25.03	12050	24.90	15475	19.38		

HOME SERVICE
MAIN ARABIC PRGRS. (daily); exc. Fri.
04.00–07.00 on 818/1079/980/1142/1178/**9805**/**15475** kc/s
07.00–09.00 on 926/1079/980/1142/1178/**9805** kc/s
*09.00–11.00 on 926/**9805** kc/s
11.00–13.00 on 818/1079/980/1142/1178/**9805**/**15475** kc/s

*13.00–14.30 on 818/**9805** kc/s
*14.30–23.00 on 818/1079/980/1142/1178/**9805**/**15475** kc/s
Fri. only:
09.00–11.00 on 926/1079/980/1142/1178/**9805**/**15475** kc/s
13.00–14.45 on 818/**9805** kc/s
14.45–23.30 on 818/1079/980/1142/**9805**/**15475** kc/s
National Music: D.: 05.25, 09.30, 11.45, 14.45. – **N.: D.:** 04.45, 12.30, 15.00, 18.30, 21.00, 23.15. – **T.S.:** Cairo University clock at the beginning of the main News. Time Dots are announced each half hour.
VOICE OF ARABS:
03.00–04.20 on 926/7050/11664 kc/s. – 07.00–09.00 on 620 kc/s. – 09.00–13.30 on 620/7050/11664 kc/s. – 13.30–14.00 on 620 kc/s. – 16.30–18.00 on 620/7050/11664 kc/s. – 18.00–23.00 on 620/7050/11664/15430 kc/s.
N. & Commentary: D.: 03.30, 04.00, 09.00, 10.30, 11.30, 13.25, 18.00, 20.30, 22.00.
SUDANESE PRGR.:
04.30–06.00 on 926/7050/11664 kc/s
14.00–16.20 on 620/7050/11664 kc/s
N. & Commentary: D.: 04.40, 05.00, 14.20, 14.55, 15.45.
SECOND PRGR. (Cultural): 19.00–22.00 on 926 kc/s.
POPULAR CULTURAL PRGR.: 14.00–19.00 on 926 kc/s, 19.00–22.00 on 1313 kc/s. – **N.: D.:** 14.25, 16.30, 19.00.
ALEXANDRIA REG. PRGR.: 11.30–12.30, 15.00–19.00 on 1277 kc/s. **N.: D.:** 11.50, 17.30.
FOREIGN LANGUAGE PRGR. (Local service)
05.00–08.00, 10.30–14.00 on 557 kc/s. 14.00–17.00 on 773 kc/s. 17.00–21.30 on 557 kc/s. Fri., Sun. also 08.00–10.30 on 557 kc/s.
N. & Commentary: English: 12.15, 18.00. – **French:** 06.00, 12.00, 19.00. – **German:** 17.00. – **Greek:** 05.30, 13.00. – **Italian:** 16.00.

FOREIGN SERVICES
TO SOUTH & SOUTH EAST ASIA: On 17920 kc/s:
Arabic: 10.30–11.30. – **Indonesian:** 11.30–12.30. – **Malayan:** 12.30–13.00. – **Bengali:** 13.00–13.30. – **English** (to India): 13.30–14.30. – **Urdu** (to Pakistan): 14.00–14.30. – **Pushtu:** 14.30–15.00.
TO EAST AFRICA: On 17920 kc/s:
Sudanese accents: 15.15–15.30. – **Swahili:** 15.30–16.30. – **Amharic:** 16.30–17.00. – **Somali:** 17.45–18.30.
TO MIDDLE EAST: On 12050 kc/s:
Kurdish: 15.15–16.00. – **Turkish:** 16.00–16.45. – **Persian:** 17.00–20.00.
TO EUROPE: On 11915 kc/s:
French: 19.00–19.30. – **Arabic:** 19.30–20.00. – **German:** 20.00–21.00. – **Italian:** 21.00–21.30. – **English:** 21.30–22.30.
TO WEST AFRICA: On 17690 kc/s
Hausa: 20.15–21.30. – **English:** 21.30–22.15. – **French:** 22.15–23.00.
TO NORTH & SOUTH AMERICA:
Brazilian to So. America: 00.00–00.45 on 9795/15475 kc/s
Spanish to So. America: 00.45–01.30 on 9795/15475 kc/s
Arabic to So. & No. America: 01.45–02.45 on 15475/9795 kc/s
TO ISRAEL: On 557 kc/s:
Hebrew: 04.00–05.00, 15.00–17.00.
DICTATION SPEED NEWS: On 7050/11664 kc/s:
Arabic: 06.00–06.30, 13.00–13.30. – **English:** 06.30–07.00.
INT.-SIG.: Camel Bells. – **V.:** Reports wanted. They are answered by QSL-card. Reports should be addressed to Monitoring Dept.: Engineering Section, U.A.R. Broadcasting, Cairo. – **PUB.:** Weekly and quarterly magazines in Arabic. Prgr.schedules twice per year.

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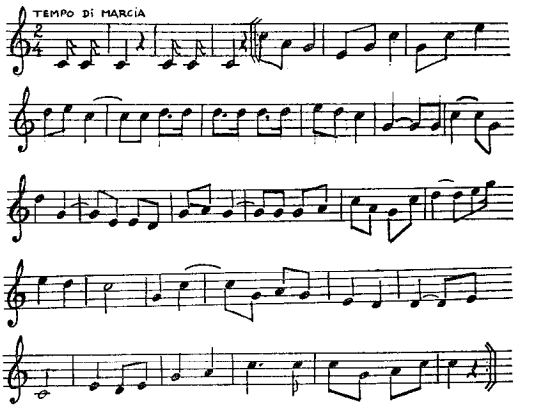
WASHINGTON 6, D.C.

★ ETHIOPIA ★

L.T.: GMT+3 h. – **Pr.L.:** Amharic, Arabic, English, Somali. – **Po.:** 20.000.000. – **Rcvrs.:** 300.000. – **E.C.:** 110/220 V., A.C., 50 c/s.
RADIO ADDIS ABABA (Go.)
FI.: By Go. **AD.:** 15 min. twice daily, 11.45–12.00, 17.45–18.00. **ADDR.:** Imperial Ethiopian Government, Ministry of Information, P.O. Box 1364, Addis Ababa. **Cable:** "Ethiopress". **Te.:** 2356. – **L.P.:** Vice Minister H. E.: A. A. M. Dessalegn. Dir. Gen.: A. K. Asfaw. Dir. Prgr. and Foreign Rel.: A. T. Abebe. Dir. Tec.: A. A. Lemma.
STATIONS: Addis Ababa.

5056 kc/s	59.35 m	1 kW	7290 kc/s	41.15 m	10 kW
6185 –	48.50 –	10 –	9610 –	31.22 –	10 –

HOME SCE. on all frequencies:
05.00–05.30(W), 06.30–09.00(Sun.), 10.00–12.00(W), 10.00–11.00 (Sun.), 16.00–18.00, 19.00–20.00.
Amharic: 05.00–05.30(W), 06.30–06.45(Sun.), 11.00–12.00(W), 17.00–18.00. **N.:** 05.00(W), 06.30(Sun.), 11.00(W), 17.00. – **Folklore Music:** 05.15(W), 06.45(Sun.), 11.15(W), 17.15. – **Somali:** 10.00–10.15(W), 16.30–17.00. **N.:** 10.00(W), 16.30. – **English:** 10.15–11.00(W), 16.15–16.30. – **N.:** 10.15(W), 16.15. – **Arabic:** 08.15–09.00(Sun.), 16.00–16.15
International Musical Prgr.: 10.00–11.00(Sun.), 19.00–20.00.
FOREIGN SCE.: Reported at 18.15–18.45 on 11955 kc/s (for Europe) and 17775 kc/s (for West Africa)
ANN.: Amharic: "Yih Yeitiopia Radio Tabia New". **English:** "This is R. Addis Ababa the Voice of Ethiopia". – **INT.-SIG.:**



V. by QSL-card. Re. in E., F. or Amharic. – **F.PL.:** Mw. and sw. broadc. netw. for the whole Empire.
LUTHERAN WORLD FEDERATION BROADC. SERVICE (Rel.)
FI.: Non profit organization, supported by church contributions – **ADDR.:** P.O. Box 654, Addis Ababa. **Cable:** Lutherworld. **Te.:** 6730. **L.P.:** Dir. Gen.: Dr. Sigurd Aske. Dir. Tec.: E. Kraemer. – **STATION:** "Voice of the Gospel" in 1962.
ERITREA: AFRTS-station: see USA.

★ GABON (Republic) ★

L.T.: GMT+1 h. – **Pr.L.:** French. – **Po.:** 400.000. – **E.C.:** 110 V., A.C., 50 c/s.
RADIODIFFUSION DU GABON (Go.)
FI.: By Go. and SORAFOM. – **L.P.:** Dir.: D. Castanet. Dir. Tec.: R. Georges.
HOME SERVICE in French, Vernaculars: W. 11.15–12.30(Sat. 13.00), 17.30–21.00(Sat. 22.00). Sun.: 07.00–13.00, 17.30–21.00.

1520 kc/s	197.3 m	1 kW:	as above	
4775 –	62.84 –	4 – :	17.30–21.00(Sat. 22.00)	
9690 –	30.96 –	4 – :	11.15(Sun. 07.00)–13.00(Sat. 14.00)	

N. in French: 07.30(Sun.), 11.50, 18.30. – **Folklore Music:** D. 17.30–17.45. – **Rel.:** Sun. 08.00, 09.00.
ANN.: "Ici la Radiodiffusion Gabonaise, Libreville". – **V.** by letter. – **F.PL.:** 25 kW sw.-tr. in 1961.

★ GHANA ★

L.T.: GMT. – **Pr.L.:** English, Akan, Ewe, Dagbani, Ga, Hausa, Nzema & French. – **Po.:** 6.500.000. – **Rcvrs.:** 90.000 (+44.000 rediffusion loudspeaker boxes). – **E.C.:** 230/400 V., A.C. 50 c/s.
GHANA BROADCASTING SYSTEM (Go.)
FI.: By Go. Income from Wired Relay Service which offsets in part the State subsidy. – **ADDR.:** Broadcasting House, P.O. Box 1633, Accra. **Cable:** Broadcasts. **Te.:** 7551. – **L.P.:** Dir. Broadc.: W. F. Coleman, B. Sc., A.M.I.E.E. Dep. Dir.: B. Spio-Garbrah, B.A. Dir. Tec.: H. H. Walter. Head Prgr.: J. Ghartey. Head News: E. G. K. Adjorlolo, M. Sc.
HOME SERVICE

3366 kc/s	89.12 m	20 kW:	05.30–08.00, 16.30–22.15(Sat. 23.00)	d*
4915 –	61.04 –	5 – :	05.30–08.00, 12.00–22.15(Sat. 23.00)	d*
9640 –	31.12 –	1.3 – :	12.00–16.30	d*. *Sun. 07.15–16.30.

N.: English: 06.00 (Home), 07.00 (Internat.), 13.00 (Internat.), 18.00 (Internat.), 20.00 (African), 21.00 (Home). – **Ghana Languages:** 12.15, 16.30. – **Wrp.:** 12.00, 17.45.
ANN.: "This is the National Service of the Ghana Broadcasting System" preceded by drumming or "This is R. Ghana, Accra". – **INT.-SIG.:** Guitar. – **V.** by letter in E., F. – **F.PL.:** A new st. for External Broadc. at Tema in 1961. The st. will have 4-100 kW tr. – **PUB.:** "Radio Review", weekly; TV Times. Copies obtainable from the Guinea Press, P.O. Accra (3d).

★ GUINEA (Rep.) ★

L.T.: GMT. – **Pr.L.:** French, Vernaculars. – **Po.:** 2.525.000. – **Rcvrs.:** 25.000. – **E.C.:** 230 V. A.C., 50 c/s.

RADIODIFFUSION NATIONALE (Go.)

ADDR.: B. P. 617, Conakry. **Te.:** 2202. – **L.P.:** Dir. El Hadji Abdoulaye Toure.
HOME SCE. in French, Nationallanguages, English, Creole-English, Portuguese, Creole-Portuguese, Ouolof, Bambara, Mandjake:
1403 kc/s 213.8 m 1 kW
4910 – 61.10 – 18 –
7125 – 42.11 – 18 –
} W. 06.30–08.00, 12.00–13.30 (Thurs. 14.00), 18.00–21.00 (Sat. 16.00–22.00). Sun. 09.30–13.30, 16.00–22.00.
N.: French: W. 06.45, 07.30, 12.45, 16.45 (Sat.), 18.15, 20.00. Sun. 10.15. – **English:** Sat. 17.05. – **Creole-English:** Sat. 17.30. – **Portuguese:** Sun. 11.30. – **Creole-Portuguese:** Sun. 11.50. – **Mandjake:** Sun. 12.00–12.20. – **Ouolof:** Sun. 19.00. – **Bambara:** Sun. 19.25. **National Languages:** D. 18.30–19.55.
ANN.: In French: "Ici Conakry, Radiodiffusion de la République de Guinée" or "Ici Conakry, Radiodiffusion Naitonale" (before news). – **INT.-SIG.:** First movement of the popular heroic song "Alpha Yaya" on guitar. – **V.** by letter.

★ GUINEA (Portuguese) ★

L.T.: GMT+1 h. – **Pr.L.:** Portuguese. – **Po.:** 547.000. – **Rcvrs.:** 1491. – **E.C.:** 220 V., A.C., 50 c/s.

EMISSORA DA GUINÉ (Go.)

AD.: 15 min. a day. – **ADDR.:** Emissora da Guiné, Bissau. – **L.P.:** Pres.: Eng. N. A. de Sousa Drummond Borges.
HOME SCE.: CMQ 7948 kc/s 37.75 m 1 kW: 13.00–14.00 (Sun. only), 21.00–23.00. **N.:** 21.45–22.00.
ANN.: "Aqui Bissau, Emissora da Guiné Portuguesa". – **INT.-SIG.:** "Variations in D-minor" by A. Paredes played on guitar. – **V.** by QSL-card. – **F.PL.:** Power 5 kW.

★ GUINEA (Spanish) ★

L.T.: GMT+1 h. – **Pr.L.:** Spanish. – **Po.:** 209.000. – **Rcvrs.:** 1500.

EMISORA DE RADIODIFUSION SANTA ISABEL (Go.)

ADDR.: Apartado de Correos no. 195, Santa Isabel.
D. Prgr.: W.: 06.30–07.30, 12.00–14.00, 17.00–21.00. Sun.: 12.00–14.30, 18.30–20.30.
Santa Isabel: 7160 kc/s 41.90 m 0.5/5 kW. – **N. in Sp.:** W. 13.15–13.30. **French:** 18.45–19.15. **Portuguese:** 18.00–18.30. **Bubi & Pamue:** 17.00–18.00. – **INT.-SIG.:** Opening: "Los Voluntarios". Close down: Spanish National Hymn. – **ANN.:** "Aqui Emisora de Radiodifusión de Santa Isabel de Fernando Poo". – **V.** by letter.

RADIO ECUATORIAL (Go.)

ADDR.: Apt. 57, Bata, Provincia de Rio Muni. – **L.P.:** Dir.: F. de Anta Franco.
HOME SCE.: 7800 kc/s 38.50 m 0.4 kW: 11.00–13.45, 18.00–21.00.
ANN.: "Aqui Radio Ecuatorial Bata, Emisora de Rio Muni". – **V.** by QSL-card.

R. CALATRAVA, Calatrava, Rio Muni.

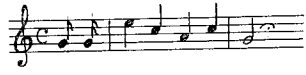
HOME SCE.: 6670 kc/s 45.00 m 17.00–20.55.
INT.-SIG.: Closes with "Ave Maria".

★ IVORY COAST (Republic) ★

L.T.: GMT. – **Pr.L.:** French, Vernaculars. – **Po.:** 3.091.000. – **Rcvrs.:** 50.000. – **E.C.:** 230 V., A.C., 50 c/s.

RADIO ABIDJAN (Go.)

ADDR.: Radiodiffusion de la Côte d'Ivoire, B.P. 2261, Abidjan. **Cable:** Radiocotivoire. **Te.:** 3514. – **L.P.:** Dir. Thiam.
HOME SERVICE in French, Mossi, Senoufo, Dioula, Ebrié, Bété, Baoulé: Mo.-Fri.: 06.30–08.00, 12.15–13.30, 17.45–23.30. Sat. 06.30–08.00, 12.15–24.00. Sun. 07.15–23.30.
1493 kc/s 201.0 m 4 kW: as above
4940 – 60.72 – 10 – : 06.30–08.00, 17.45–24.00
7215 – 41.58 – 25 – : 08.00–17.45
N. in French: 06.45(W), 07.30, 12.45, 17.45 (W), 19.30, 20.00, 22.30. – **N. in English:** W. 19.00. – **N. in Vernaculars:** W. 17.45–19.00. –
ANN.: "Ici Abidjan, Radiodiffusion de la Côte d'Ivoire émettant sur...". – **INT.-SIG.:**



V. by QSL-card. **R.p.** – **F.PL.:** A 100 kW sw.-tr. will probably operate a Foreign Sce. as follows:
Beamed areas: I=Bangui, Brazzaville, Fort Lamy, Yaoundé, Libreville; II=Conseil de l'Entente, Nigeria; III=Mali, Guinea, Mauritania; IV=Paris):
I: 05.30–06.30, 11.00–12.00, 18.00–18.30 in 41, 19 m.b. – II: 06.00–07.00, 12.00–12.30, 18.30–19.00, 20.00–22.00 in 41, 25 m.b. – III: 07.00–08.00, 12.30–13.00, 19.00–20.00 in 41, 25 m.b. – IV: 16.00–17.00 in 41, 19 m.b.

★ KENYA (British) ★

L.T.: GMT+3 h. – **Pr.L.:** English, Swahili, Gujerati, Kikuyu, Luo, Kamba, Hindustani, Arabic, African vernaculars. – **Po.:** 6.351.000. – **Rcvrs.:** 100.000. – **E.C.:** 220/440 V., A.C., 50 c/s.

KENYA BROADCASTING SERVICE (Go.)

ADDR.: P.O. Box 621, Nairobi. **Cable:** Broadcasts, Nairobi. – **Coast Regional:** P.O. Box 584, Mombasa. – **Cable:** Broadcasts, Mombasa. – West Kenya Regional: P.O. Box 844, Kisumu. – **Cable:** Broadcasts, Kisumu.
L.P.: Dir.: C. P. Jubb. Dir. Tec.: G. Phillips. Dir. Prgr.: A. M. Dean.

HOME SERVICES

English National (Nairobi):
863 kc/s 347.7 m 10 kW
4885 kc/s 61.41 m 10 kW
7240 kc/s 41.44 m 10 kW
FM: 93.9 mc/s 0.05 kW
} W. 03.15–06.00, 09.00–11.15, 13.00–20.00. Sat. 03.15–06.00, 09.00–21.00. Sun. 04.00–20.00.
N.: 04.00*), 05.00*) (W), 06.00*)) (Sun.), 06.14 (Sun.), 10.15, 11.00*), 16.00*) (Mo.-Fri.), 16.10 (W), 17.00 (Sun.), 18.00*), 18.15 (W) – *) BBC-news.

Asian National (Nairobi)
683 kc/s 439.2 m 5 kW
4855 kc/s 61.79 m 6 kW
7150 kc/s 41.96 m 6 kW
} W. 03.30–05.00, 09.30–11.00, 14.00–19.30. Sat. 03.30–05.00, 09.30–19.30. Sun. 05.00–19.00.

African National (Nairobi)
750 kc/s 400.0 m 10 kW
4934 kc/s 60.80 m 10 kW
7210 kc/s 41.61 m 10 kW
} W. 03.00–04.30, 10.00–11.00, 13.30–19.30, (Sat. 20.00). Sun. 04.00–11.00, 14.15–19.35

African Regional (Nairobi)
1268 kc/s 236.6 m 2 kW
4950 kc/s 60.60 m 6 kW
7125 kc/s 42.11 m 6 kW
} Due for introduction towards the end of 1960, operating schedules not yet decided.

Coast Regional (Mombasa):
791 kc/s 379.2 m 5 kW
4965 kc/s 60.42 m 5 kW
7180 kc/s 41.78 m 5 kW
} W. 03.30–04.45, 14.30 (Sat. 14.00) –20.30. Sun. 06.15–11.00, 14.30–20.30.

West Kenya Regional (Kisumu):
620 kc/s 483.9 m 5 kW
4804 kc/s 62.45 m 5 kW
7288 kc/s 41.16 m 5 kW
} W. 03.25–04.25, 09.30–11.00, 13.15 –18.45. Sat. 03.25–04.35, 09.30– 11.00. Sun. 04.55–07.30, 10.55–17.30.

Mount Kenya Regional (Nyeri):
6170 kc/s 48.62 m 0.25 kW: W. 03.30–04.45, 09.45–10.45, 13.15–16.00. Sun. 11.00–13.30.

ANN.: All transmissions are regularly identified by the words "Kenya Broadcasting Service" preceeded by the appropriate national or regional service identity. – **V.** by letter.
INT.-SIG.: Sounds of African birds.

FORCES BROADCASTING STATION (British Forces)

ADDR.: British Forces P.O. 10, Nairobi. **Te.:** 55232. – **L.P.:** St. Commander: M. A. Pachebat. Prgr. Officer: A. J. Parfrey. Tec. Officer: G. E. Mills.
STATIONS: 1448 kc/s 207 m 1 kW – 6112 kc/s 49.08 m 0.25 kW.
HOME SERVICE: English: W.: 03.00–05.15, 09.30–20.00(Sat. 21.00). Sun. 04.00–20.00. **N.:** 04.00, 06.00(Sun.), 10.00(Mo.–Fri.), 16.00 (exc. Sat.), 17.00(Sat.), 18.00, 20.00(Mo.–Fri.). – **Music:** Sat. 11.00, Tues., Fri. 11.00(Dutch), Sun. 11.15, Thurs. 09.30(Brit. Isles). – **Rel.:** W.: 03.55(Sun. 06.10), 19.50.
ANN.: "This is the Forces Broadc. Service East Africa".
INT.-SIG.:

V. by QSL-card or letter. R.p.

★ LIBERIA ★

L.T.: GMT+$^{8}/_{4}$ h. – **Pr.L.:** English, Liberian, Vernaculars. – **Po.:** 2.000.000. – **Rcvrs.:** 50.000. – **E.C.:** 110–220 V., A.C, 60 c/s.

RADIO STATION ELWA (Non-comm., Cultural Missionary Broadc. Sce. of the Sudan Interior Mission).

FI.: Entirely by voluntary gifts of Christian people.
ADDR.: ELWA Radio Village, Box 192, Monrovia. **Cable:** "Evangel. Liberia". – **L.P.:** Gen. Mgr.: Rev. R. G. de la Haye. St. Mgr.: D. Reed. Dir. Prgr.: J. H. Pelley. Dir. Tec.: H. Ries. Dir. French Dept.: M. Weber. Dir. African Languages: Rev. W. H. Thompson.
STATIONS

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
710	422	1	11825	25.37	10/50	21535	13.93	0.5
4770	62.89	10	15085	19.89	50			

HOME SCE. on 710 kc/s: W.: 06.30–09.15, 16.15–22.15. Sun. 06.30–23.15. – **Liberian Languages:** W.: 08.45–09.15, 16.45–17.00. Sun. 06.30–08.15. **N.: English (BBC & African):** W.: 07.00, 18.00, 20.00. Sun.: 09.15, 13.00, 20.00. **Liberian:** W. 20.45. – **Rel. Prgr's:** W.: 06.45, 18.15. Sun.: 09.45, 21.45.

FOREIGN SCE.
West African Sce. on 4770 kc/s: W.: 06.30–09.15, 19.15–22.15. Sun. 06.30–14.15, 19.45–23.15. – **N. in English:** W.: 06.15, 07.00, 20.00. Sun.: 09.15, 13.00, 20.00. – **Rel.: English:** W. 20.15, Sun. 21.45. **French:** W. 21.00–22.15, Sun. 21.15–21.45. **Portuguese:** Tues. 21.30–22.30.

Central African Sce. on 11825 kc/s: W.: 05.30–07.30, 11.00–14.00, 16.00–18.30. Sun. 05.30–19.30. **N.: English:** W.: 06.15, 07.00, 17.15. – **Rel.: English:** W. 17.30. Sun.: 06.30, 18.00. **French:** D. 05.30–06.00. Sun. 08.00–10.00. **Amharic:** W. 18.00–18.30. Sun. 10.00–11.00. **Hausa:** D. 13.00–14.00. **Yoruba:** D. 12.00–13.00.
Congo-East African Sce. on 15085 kc/s: D. 14.15–18.00. – **Rel.: English:** W. 14.30. Sun. 14.15. **French:** D. 17.00–18.00. **Swahili:** D. 15.00–16.00. **Kikongo:** D. 16.30–17.00.
Middle East Sce. on 15085 kc/s: D. 18.15–20.30. **Rel.: Arabic:** D. 18.30–19.30. **Hebrew:** D. 20.00–20.30.
No. American Sce. on 11825/15085/21535 kc/s: English: Wed. 01.00–03.45.

ANN.: Home Sce.: "This is ELWA Radio Village, broadcasting from Monrovia, Liberia". **Foreign Sce.:** "This is ELWA Radio Village broadcasting from Monrovia, Liberia". **F.:** "Ici ELWA Radio Village, Monrovia, Liberia".
V. by QSL-card or letter. **R.p.** appreciated. **Re.** in English or French. –
PUB.: R. News Bulletin quarterly, Prgr.sched. every six months, free on request. – **F.PL.:** Expansion of Liberian Sce.; No. African Sce. in Arabic & French.

LIBERIAN BROADCASTING CORPORATION (Comm.)

ADDR.: Liberian Broadcasting Corporation, P.O. Box 594, Monrovia, Liberia. – **L.P.:** Gen. Mgr.: Kim Jackson. Chief Eng.: T. Dresser. News Ed.: H. Andrews.

HOME SERVICE in English: 650 kc/s 461.5 m 10 kW – 3255 kc/s 92.15 m 10 kW.
N. in English: 06.15, 08.00, 15.15, 19.15, 21.00 (World News). – **N. in African dialect:** 15.25. – **African N. in English:** 19.25. – **ANN.:** "This is Radio Liberia, Station ELBC Monrovia". – **V.** by letter.

★ LIBYA ★

L.T.: GMT+2 h. – **Pr.L.:** Arabic. – **Po.:** 1.200.000. – **Rcvrs.:** 200.000. **E.C.:** 125/130/220 V., A.C., 50 c/s.

LIBYAN BROADCASTING SERVICE (Go.)

FI.: By the Federal Broadc., Press and Pub. Dept. – **ADDR.:** P.O. Box 333, Tripoli. **Cable:** Idaalibya. **Te.:** 1090. – **L.P.:** Dir. Gen.: Federal Dir. Broadc., Press and Publications: Ess. A. M. Misellati. Prgr.Cons.: J. Reilly. Dir. Tec.: B. Banks.

STATIONS:
Tripoli 1052 kc/s 285.1 m 50 kW – Tripoli 6140 kc/s 48.86 m 2 kW
Benghazi 1484 kc/s 285.1 m 10 kW – 7180 kc/s 41.78 m 3 kW

HOME SERVICE in Arabic: 05.00–07.00(Fri. 07.30), 12.00–14.00, 16.00–22.00. **N.:** 05.45, 12.30, 13.00, 13.55, 18.15, 19.30, 21.00, 21.55. **L.L.:** Fri., Sun. 16.45–17.00 (English lesson).
ANN.: "Hadihi dár idáa Líbia". – **V.** by QSL-card or letter. – **F.PL.:** Tripoli st. 100 kW in 1961.

NO. 1 FORCES BROADCASTING STATION

(British Forces)
ADDR.: No. 1 Forces Broadcasting Station, B.F.P.O. 57, Tripoli. **L.P.:** St. Commander: R. L. Angove, ALCH. Prgr. Officer: K. J. P. Doherty. Techn. Officer: J. Campbell.

STATION: 1394 kc/s 215 m 7.5 kW – 1484 kc/s 202 m 1 kW (rel). **D. PRGR. in English:** W.: 05.30–07.30, 11.30–22.00. Sun. 06.00–22.00. **N.** relay BBC–G.O.S. – **ANN.:** "This is the Forces Broadcasting Service Tripoli". – **V.** by QSL-card. **R.p.** – **PUB.:** Prgr.schedule free on request. **R.p.** – **F.PL.:** Replacement with VHF tr's 89.6, 91.6, 93.4 mc/s with 20 kW (ERP) 1961.

NO. 5 FORCES BROADCASTING STATION

(British Forces)
ADDR.: British Forces Post Office 55, Benghazi. – **L.P.:** St. Commander: S. Challoner. Prgr. Officer: D. J. Davis. Technical Officer: N. Joyce.

STATION: 833 kc/s 360 m 1 kW.
D. PRGR. in English: W.: 04.00–06.30, 16.00–21.00(Sat. 22.00). Sun. 05.00–10.00, 16.00–21.00. – **ANN.:** "This is the Forces Broadcasting Service Benghazi". – **V.** by QSL-card. – **PUB.:** Prgr.schedule free on request. – **F.PL.:** Replacement FM tr's (band II) 1962.

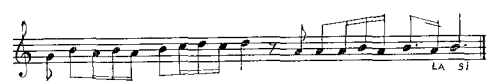
ARMED FORCES RADIO & TV See U.S.A.

★ MADAGASCAR (Republic) ★

L.T.: GMT+3 h. – **Pr.L.:** French, Malgache. – **Po.:** 5.500.000. – **Rcvrs.:** 70.000. – **E.C.:** 110/220 V., A.C., 50 c/s.

RADIODIFFUSION DE MADAGASCAR (Go.)

FI.: Malgache Go. (1/3), French Go. (2/3). – **ADDR.:** B.P. 442 Tananarive. **Cable:** R. Madagascar. **Te.:** 2381. – **L.P.:** Dir.: Souchet. Dir. Tec.: Leruste. Dir. Nat. Net. I: Razanamaholy. Dir. Nat. Net. II: Mlle Denisse. Dir. N.: Lacarrieu. Chief P. R.: Razakandraina.
HOME SERVICE:
National Network I (Malgache):
1502 kc/s 199.7 m 1 kW. – 7155 kc/s 41.92 m 4 kW
3232 – 92.82 – 4 – – 9696 – 30.94 – 4 –
D. 03.30–05.30 (Sun. 04.00–05.28) on 1502/3232/7155 kc/s, 09.00–11.00 (Sat. 09.00–13.58, Sun. 05.28–13.58) on 1502/7155/9696 kc, 15.00–19.30 (Sat. & Sun. 13.58–19.30) on 1502/3232/7155 kc/s.
N., Wrp.: 03.30, 04.30, 09.30, 16.00, 18.30. – **Franco-Malgache:** Sun. 05.00–08.00.
National Network II (French):
1394 kc/s 215.2 m 1 kW – 7260 kc/s 41.32 m 5 kW
3288 – 91.24 – 4 – – 9515 – 31.53 – 4 –
D. 03.30–05.30 (Sun. 04.00–05.28) on 1394/3288/7260 kc/s, 09.00–11.00 (Sat. 09.00–13.58, Sun. 05.28–13.58) on 1394/7260/9515 kc, 15.00–19.30 (Sat. 13.58–20.30, Sun. 13.58–19.30) on 1394/3288/7260 kc.
N., Wrp.: 03.45, 04.45, 09.15, 16.30, 19.00. **Sport, Music:** Sun. 13.45–17.00 on 1466/5835/7880 kc/s.
ANN.: "Ici Tananarive, Radiodiffusion de Madagascar Chaîne Nationale I (or Chaîne Nationale II)" and "Voici notre émission de la journée diffusée sur les longueurs suivantes....".
INT.-SIG.: "O...Raketaka". – **V.** by QSL-card.



F.Pl.: Two 25 kW sw-tr's; One 4 kW mw-tr.

★ MADEIRA ISLANDS (Portuguese) ★

L.T.: GMT+1 h. (Su. GMT). **Pr.L.:** Portuguese. **Po.:** 255.000. – **E.C.:** 220/380 V., A.C., 50 c/s.

EMISSORA NACIONAL see Portugal (Go.)

RADIO CLUB DE MADEIRA (Pr.)

ADDR.: S. Martinho, Funchal.
HOME SCE.: CBS90 1484 kc/s 202 m 1 kW:
13.30–15.30, 20.00–02.00.
V. by QSL-card.

RADIODIFUSAO DE FUNCHAL (Pr.)

1594 kc/s 188.2 m 0.15 kW:
W.: 13.30–17.00, 21.00–02.00. Sun.: 11.30–13.30, 15.00–02.00.

★ MALI (Republic) ★

L.T.: GMT. – **Pr.L.:** French, Vernaculars. – **Po.:** 3.650.000 – **Rcvrs.:** 8.000. – **E.C.:** 115/200 V., A.C., 50 c/s.

RADIO MALI (Go.)

ADDR.: B.P. 171, Bamako. **Cable:** Radio Mali. **Te.:** 2474. – **HOME SCE.** in French, Bambara, Sonraie, Peul & Sarakolé, Tamachek: **W.:** 06.30–07.30, 12.15–13.00 (Sat. 14.00), 18.30–22.15 (Sat. 18.00–23.00). Sun.: 08.45–18.00, 18.30–22.00.
1430 kc/s 210.0 m 1 kW: as above
7145 – 41.99 – 4 –
4835 – 62.05 – 4 – morning+evening
9745 – 30.80 – 4 – daytime
N. in French: 07.00 (W), 09.15 (Sun.), 12.30, 20.15, 22.00. – **N. in Vernaculars:** D. 12.45, W. 18.45, 19.00, 19.15, 19.25, 19.35.
ANN.: F.: "Ici Bamako, Radio Mali, émettant sur...". – **INT.-SIG.:** Fanfare. – **V.** by letter. – **F.PL.:**

★ MAURITANIA (Republic) ★

L.T.: GMT. – **Pr.L.:** French, Arabic, Maure, Sarakolé, Toucouleur. – **Po.:** 650.000. – **E.C.:** 110–125 V., A.C., 50 c/s.

RADIO MAURITANIE (Go.)

FI.: By state and SORAFOM. – **ADDR.:** Main St.: B.P. 376, Saint Louis. **Te.:** 519. – **Reg. St's:** Nouakchott, Aioun el Atrouss. – **L.P.:** Dir. J. Chaminade.
HOME SERVICE: *W.: 07.00–08.00, 12.15–13.30, 19.55–23.45. Sun.:* 07.30–08.30, 12.15–13.30, 19.55–23.45.
1349 kc/s 222.4 m 1 kW: as above
4855 – 61.79 – 4 – : 07.00–08.30, 19.55–23.45
9610 – 31.21 – 4 – : 12.15–13.30
N.: French: 12.45, 20.30(W), 21.00(Sun.). **Vernaculars:** 07.11, 12.17, 13.00, 21.15, 21.45, 22.00.

ANN.: F.: "Ici Radio-Mauritanie". – INT.-SIG.: Mauritanian guitar. V. by letter. Re. in French and Arabic. – F.PL.: Reg. st's in Aioun el Atrouss using 5055 kc/s 0.25 kW relaying Saint Louis.

★ MAURITIUS (British) ★

L.T.: GMT+4 h. – Pr.L.: English, French, Hindi, Chinese, Creole – Po.: 625.000 – Rcvrs.: 37.000 – E.C.: 230 V., A.C. og 50 c/s.

MAURITIUS BROADCASTING SERVICE (Go.)

ADDR.: Malherbes Transmitter Station, Curecipe. Te.: 507. – L.P.: Mgr.: L. C. de Chazal. Dir. Tec.: C. N. Stansfield. Prgr. Org.: M. P. Harman.

HOME AND DEPENDENCIES:

1364 kc/s 220 m 0.25 kW } W. 03.00–04.15, 13.00–18.15, Sat.
3325 kc/s 90.23 m 0.01 kW or } 03.00–04.15, 08.00–09.30, 13.00–
6101 kc/s 49.17 m 0.01 kW } 19.00 Sun 03.00–08.35, 13.00–18.30.

French/English: W. 03.00–04.15, 14.30–17.30, Sat. 14.30–19.00, Sun. 03.00–08.30. – French: Sun. 14.30–18.30. – Hindustani: D. 13.00–14.30. – Prgrs. in various other languages: Sun. 08.30–09.15, Mo. 13.00–13.30, Tues., Thurs. 04.30–05.15.

N.: French: 03.30, 15.00, 17.30, English: 04.00–18.00, Hindustani: 13.30. – Mbg. (for Mauritians Overseas): Sun. 06.40. – Wrp.: 15.10.

L.L.: English Lesson: Mo. 15.45–16.00.

ANN.: E.: "This is the Mauritius Broadcasting Service". F.: "Ici de M. B. S. poste de radiodiffusion de l'Ile Maurice". – F.PL.: 10 kW mw-tr. shortly. Broadcasting house 1962.

★ MOROCCO ★

L.T.: GMT. – Pr.L.: Arabic, French, Spanish, English, Berber. – Po.: 10.000.000. – Rcvrs.: 512.000. – E.C.: 110 V/220 V, A.C., 50 c/s.

RADIODIFFUSION MAROCAINE (Go.)

ADDR.: I, Zenkat Pierre Parent, Rabat. Cable: "Radio Maroc". – L.P.: Dir. Gen.: Si Moktar Ould Bah. Dir. Tec.: Si Abdelhak Benkirane.

HOME SERVICE:

FIRST NETWORK: Arabic: W. exc. Fri.: 06.30–10.00, 12.00–15.00, 18.00–24.00. Fri.: 06.30–16.30, 18.00–24.00. Sun. 06.30–15.00, 18.00–24.00.

	kc	m	kW		kc	m	kW
Sebaa-Aioun	611	491	140	Rabat	917	327	1
Casablanca	818	367	1	Marrakech	1196	251	1
Oujda	593	506	1	Tétuan	827	363	20
Sebaa-Aioun	7115	42.16	10				

SECOND NETWORK: French, Spanish, English.
W. 06.45–09.00, 12.00–15.00, 18.00–24.00. Sun. 07.30–24.00.

	kc/s	m	kW		kc/s	m	kW
Sebaa-Aioun	701	428	140	Oujda	1043	287	1
Casablanca	1187	253	1	Tanger	1016	295.5	1
Sebaa-Aioun	7225	41.52	10				

French: W. 06.45–08.30, 12.30–14.00. 19.00–23.00. Sun. 07.20–10.00, 12.30–14.00, 16.00–18.00, 18.30–23.30.
Spanish: W. 08.30–09.00, 14.00–15.00, 23.00–24.00. Sun. 08.30–09.00, 10.00–12.00, 14.00–15.00, 23.00–24.00.
English: D. 12.00–12.30, 18.00–18.30.

THIRD NETWORK: Berber: D. exc. Sun. 12.00–13.30, 18.00–21.00. Rabat 935 kc 321 m 27 kW. – Casablanca 1484 kc 202 m 0.5 kW. Tétuan 917 kc 327 m 5 kW.

FOREIGN SERVICE:

Arabic to South:
Sebaa-Aioun 6190 kc 48.47 m 50 kW – 15345 kc 19.55m 50 kW 9505 kc 31.55 m 50 kW. Times as first network in Arabic.
Arabic special prgr. to East: Tangier 9700 kc 30.93 m 100 kW.
Arabic, French, English to South: Tangier 11735 kc 25.52 m 50 kW. 12.30–15.00 Arabic, 18.00–18.30. English, 18.30–20.30, French, 20.30–23.30 Arabic.

"VOICE OF MOROCCO": Tangier Béni Makada 1232 kc 243.5 m 50 kW
Special prgr's: 07.00–08.30 French. – 08.30–10.00 Spanish – 10.00–16.00 Arabic – 18.00–18.30 English – 18.20–19.30 Spanish – 19.30–20.30 French – 20.30–24.00 Arabic.
ANN.: F.: "Ici Rabat Radiodiffusion Marocaine. – E.: "This is the Morroccan Broadcasting System Rabat". – Sp.: "Aqui Radiodiffusion Marroqui. – Arabic& Berber: "Ici, Rabat, Radiodiffusion du Royaume du Maroc". – V. by letter and QSL-card. – PUB.: Monthly magazine in Arabic.

PAN AMERICAN RADIO, TANGIER (Comm.)

ADDR.: Pan American Broadcasting System, Tangier. International Television Radio Tangier. Management: 7/9 rue Goya, Tangier. Cable: Panamericana. – L.P.: Pres. Dir.: J. Suriñach Oller. Secr.: N. J. Anderson.

PAN AMERICAN RADIO INTERCONTINENTAL: Arabic, English and French. In compliance with a law passed May 19th, 1959 – all private commercial radio stations closed their broadcasts on the 31st December, 1959 – only Government station continuing to function.

VOICE OF AMERICA RADIO STATION IN TANGIER

ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS: Tangier 35/50/100 kW: 02.00–08.30, 12.00–00.00.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
7160	41.90	9760	30.74	15205	19.69	17750	16.90
7200	41.67	11740	25.55	15270	19.65	17830	16.83
7250	41.38	11760	25.51	15295	19.61	17855	16.80
9555	31.40	11785	25.46	15320	19.58	21455	13.98
9615	31.20	11870	25.27	15335	19.57	21705	13.82
9680	30.99	11875	25.26	15365	19.52	25880	11.60
9740	30.80	11890	25.23	15385	19.50		
9755	30.76	15185	19.76	17705	16.94		

D.PRGR.: Short Wave. See U.S.A.
ANN.: "This is the Voice of America Transmitter, Tangier".
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – V. by QSL-card.

ARMED FORCES RADIO & TV: See U.S.A.

★ MOZAMBIQUE (Portuguese East Africa) ★

L.T.: GMT+2 h. – Pr.L.: Portuguese, English, French, Local dialects, Afrikaans. – Po.: 6.105.000. – Rcvrs.: 41.167. – E.C.: 220 V., A.C., 50 c/s.

RADIO CLUBE DE MOÇAMBIQUE (Non-profit organization)

FI: By state, licenses, adv. – AD.: Allowed in Portuguese netw.: 04.45–06.15, 09.30–12.00, 15.45–18.30; in English netw. 03.30–21.00. – ADDR.: P.O.Box 594, Lourenço Marques. Cable: Radioclube. Te.: 4045. – L.P.: Dir. Gen.: Capt. António dos Santos Figueiredo. Mgr.: Capt. João Pinheiro. Chief. Tec.: V. Rodrigues. Chief Portuguese: Dr. J. Macedo. Chief English: D. Davies.
STATIONS: 100, 10, 7.5, 5 kW alternating. Call: CR7-.
PORTUGUESE NETWORK: W. 04.45–06.00, 09.30–12.00, 15.30–20.30. Sun. 05.45–12.00, 13.00–20.30.

BO	737 kc/s	407.0 m	10 kW	as above.		
–	3250	– 92.31	– 5	–	17.00–20.30.	
BU	4924	– 60.92	– 7.5	–	15.30–20.30	
CC	9656	– 31.06	– 7.5	–	04.45 (Sun. 05.45)–12.00.	
BG	15152	– 19.80	– 5/10	–	As above to 12.00, 15.30–18.00.	

N.: 05.05 (W), 05.48 (Sun.), 10.30, 11.00, 17.45, 20.15. – Rel.: Sun. 07.00, 18.00. – Wrp.: 10.30, 16.30. – L.L. (English): Tues. 11.10, Fri. 16.00.
ANN.: On the h.: 4 notes on gong followed by "Aqui Rádio Moçambique, fala-vos o Rádio Clube em Lourenço Marques, trabalhando nas ondas...". – INT.-SIG.: Gong. – V. by QSL-card.

ENGLISH/AFRIKAANS NETWORK: Beamed to So. Af., Rhodesia Nyasaland, Congo: 03.30 (Sun. 05.00)–21.00 (Sat. 23.00).

SR	917 kc/s	327.0 m	100 kW	15.30–21.00. Sat. 23.00.	
BM	3221	– 93.13	– 7.5	–	03.30–04.45, 17.00–21.00 (Sat. 22.00)
AB	3301	– 90.88	– 7.5	–	20.00–21.00.
BV	4840	– 61.98	– 10	–	03.30–06.00, 15.00–21.00 (Sat. 22.00)
–	4859	– 61.74	– 7.5	–	20.00–21.00.
–	7254	– 41.35	– 7.5	–	03.30–17.00.
DE	9620	– 31.19	– 7.5	–	05.00–15.00.
–	11760	– 25.51	– 7.5	–	05.00–18.00.
BG	15097	– 19.87	– 5	–	08.00–14.00.

Request (Hospitals Hour): 07.00–08.45. – Rel.: D. 20.00–21.00 on 3301, 4859 kc/s.
ANN.: Every quarter-hour and half-our 4 notes on gong followed by "Aqui Lourenço Marques, Radio Clube de Moçambique, trabalhando em ondas curtas e onda media". – "This is the Radio Clube of Moçambique". – "Lourenço Marques for Happy Listening in the... meter bands". – INT.-SIG.: Gong. – V. by QSL-card. – PUB.: Monthly: Radio-Moçambique.

FRENCH PRGR. on 15152 kc/s: Tues. & Fri. 18.00–19.00 for C. Africa & Congo.

NATIVE NETWORK: Sun. 06.30–09.00. Sun. & Thurs.: 16.00–19.00

–	1223 kc/s	245.0 m	1 kW	as above.	
CA	3406	– 88.07	– 5	–	Sun., Thurs. 16.00–19.00.
–	4859	– 61.74	– 7.5	–	Sun., Thurs. 16.00–19.00.
–	7238	– 41.44	– 5	–	Sun. 06.30–09.00.

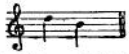
BRANCH STATIONS: 0.25 kW.

Nampula: Portuguese: W. 10.30–11.30, Sun. 07.00–09.30 on 1223 kc (245 m), 9525 kc (31.50 m). – D. 16.30–19.30 on CR7XD 4855 kc 61.79 m. – **Native Dialects:** Sun. 16.00–19.00 on 5100 kc/s 58.82 m.
Quelimane: Portuguese: W. 10.15–12.00, Sun. 08.00–12.00, 14.00–15.00 on 935 kc (321 m), 31 m.b. – D. 16.30–19.00 on 935 kc (321 m), 4775 kc (62.83 m).
Porto Amelia: Portuguese: D. 10.30–12.00 on 1421 kc (211 m), 9586 kc (31.30 m). – D. 16.30–19.00 on 1421 kc (211 m), 4895 kc (61.29 m).

EMISSORA DO AERO CLUBE DA BEIRA (Pr. Comm.)
ADDR.: C. P. no. 3, Beira. – **L.P.:** Dir. Gen.: Eng. A. Pinto. Dir. Tec.: H. Ataide.
HOME SCE. in Portuguese: W. 09.30–11.30 (Sat. 12.00), 16.00–20.00. Sun. 07.00–12.30, 16.00–20.00.
1430 kc/s 210.0 m 5 kW: as above
3255 – 92.15 – 0.3 – : as above
7255 – 41.35 – 0.3 – : 09.30–11.30 (Sat. 12.00, Sun. 12.30).
ANN.: "Radio-Moçambique-fala-vos a Emissora do Aero Clube da Beira". – **INT.-SIG.:** Two Chimes (do-la). – **V.** by QSL-card.

RADIO PAX (Religious. Owned by Franciscan Fathers)
ADDR.: C. P. 594, Beira.
HOME SERVICE in Portuguese: W. 16.30–19.30, Sun.: 05.45–07.00, 09.30–11.30, 16.00–19.30.
CR7RA 3952 kc/s 75.91 m 0.375 kW
CR7RB 7205 – 41.64 – 0.05 – } Irregular.
ANN.: "Aqui Beira fala-vos Radio Pax, Emissora Catolica de Moçambique". – **INT.-SIG.:** 2 chimes. Prgr's open with a religious choir. – **V.** by letter.

V. by letter. – **F.PL.:**
Increase of power to 10 kW



★ NIGER (Republic) ★

L.T.: GMT+1 h. – **Pr.L.:** French, Hausa, Djerma, Tamachek, Peulh – **Po.:** 2.425.000. – **Rcvrs.:** 10.000. – **E.C.:** 220/400 V., A.C., 50 c/s.

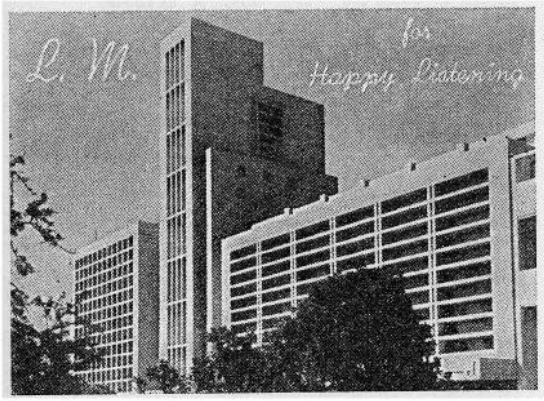
RADIO-NIGER (Go.)
ADDR.: B.P. 361, Niamey. **Cable:** Radioniger. **Te.:** 320. – **L.P.:** Dir.: B. Lucas.
HOME SERVICE: W. 05.30–06.15, 11.45–12.45, 17.00–21.00 (Sat. 22.00). Sun. 11.00–21.30.
Network I:
1511 kc/s 198.4 m 1 kW: as above
5020 – 59.76 – 4 – : 05.30–06.15, 17.00–21.00*
9708 – 30.90 – 4 – : W. 11.45–12.45, Sun. 11.00–17.00
Network II:
4785 kc/s 62.70 m 4 kW: 05.30–06.15, 17.00–21.00*
11850 – 25.32 – 4 – : W. 11.45–12.45, Sun. 11.00–17.00
*) Sat. 22.00, Sun. 21.30.
N. in French (on both netw's): 06.00 (W), 12.15, 17.00 (W), 18.30, 20.55 (W), 21.25 (Sun.). – **Folklore Music:** W. 05.35, 12.45, 17.10, 20.00. – **N. in Vernaculars:** 17.10, 17.35, 20.00 (Peulh, Tamachek, Djerma on netw. I, Haoussa, Béribéri or French on netw. II).
ANN.: At opening and close down: Local flute and "Ici Niamey Radiodiffusion de la République du Niger". – **INT.-SIG.:** Local Flute. – **V.** by QSL-card. R.p.

PUB.: Prgr.schedule free on request.

★ NIGERIA (Federation of) ★

L.T.: GMT+1 h. – **Pr.L.:** English, Yoruba, Hausa, Ibo. – **Po.:** 35.000.000. – **Rcvrs.:** 200.000 (+22.000 wired relay subscribers). – **License Fee:** 10 shillings. – **E.C.:** 230/440 V., A.C., 50 c/s.

THE NIGERIAN BROADCASTING CORPORATION (Statutory Corp.)
FI.: By state. From 1/11 60 R. Nigeria will operate on a limited commercial basis.
ADDR.: Broadcasting House, Lagos. **Cable:** Broadcasts. **Te.:** 20367. – **L.P.:** Dir. Gen.: R. S. Postgate. Dir. Tec.: J. W. Murray. Dir. Adm.: H. N. Osakwe. Dir. Prgr.: E. V. Badejo. Chief Accountant: H. L. Westgarth. Dir. News, Current Affairs: K. Fairfax.
NATIONAL PRGR. (from Lagos):
1458 kc 206 m 5 kW: W. 05.00–08.00, 09.30–22.00 (Sat. 23.00). Sun. 06.00–22.00. – 4990 kc 60.12 m 20 kW: W. 05.00–08.00, 17.30–22.00 (Sat. 23.00), Sun. 06.00–08.00, 17.30–22.00 – 4990 kc 5 kW: D. 14.30–17.15 – 7255 kc 41.35 m 20 kW: Mo.–Fri.: 06.00–08.00, Sat. 09.30–16.00. Sun.: 06.00–16.00.



These are your

Lourenco Marques Radio

Wavebands for happy listening

[1]) 15.30—21.00 917 kc/s (327 m)
[2]) 03.30—04.45
17.00—21.00 3221 kc/s (93.13 m)
[3]) 20.00—21.00 3301 kc/s (90.88 m)
[4]) 03.30—05.00
15.00—21.00 4840 kc/s (61.98 m)
[5]) 20.00—21.00 4859 kc/s (61.74 m)
[6]) 03.30—17.00 7254 kc/s (41.35 m)
[7]) 05.00—15.00 9620 kc/s (31.18 m)
[8]) 05.00—18.00 11760 kc/s (25.51 m)
[9]) 08.00—14.00 15097 kc/s (19.87 m)

Transmitter 1 closes down at 23.00 Sat.
Transmitters 2 and 4 close down at 22.00 hours on Saturdays.

All times indicated are GMT.
NOTE: Subject to seasonal changes.

LOURENÇO MARQUES *For Happy Listening*

For full information see page 116.

N. English: Local. Sun. 12.00, 18.00. Mo., Thurs. and Sat.: 05.30, 12.00, 14.00, 18.00, 21.00. Fri:. 05.30, 12.30, 14.00, 18.00, 21.00 BBC relay: D. 06.00, 20.00. Commentary: D. 06.09, 20.09.

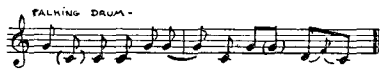
WEST REG. PRGR. (from Ibadan):
1358 kc 221 m 10 kW: W. 05.00–08.00, 09.30–22.00. Sat. 05.00–08.00, 09.30–23.00. Sun. 06.00–12.00 – 3204 kc 93.64 m 5 kW: D. 16.45–22.00 (Sat. 23.00) – 7285 kc 41.18 m 5 kW: W. 05.00–08.00, 09.30–16.30. Sun.: 06.00–16.30.

EAST REG. PRGR. (from Enugu):
1320 kc 227 m 10 kW: W. 05.00–08.00, 09.30–22.00. Sat. 05.00–08.00, 09.30–23.00. Sun. 06.00–22.00 – 3980 kc 75.38 m 5 kW: W. 05.00–08.00 Sat. 05.00–08.00, 16.45–22.00. Sun. 16.45–22.00 – 6145 kc 48.82 m 5 kW: W. 06.30–08.00, 09.30–16.30. Sun. 06.00–16.30.

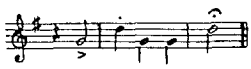
NORTH REG. PRGR. (from Kaduna):
1416 kc 212 m 1 kW: W. 05.10–08.00, 09.30–22.00. Sat. 05.10–08.00, 09.30–23.00. Suh. 05.10–22.00 – 3326 kc 90.20 m 7.5/20 kW: D. 05.10–07.00 (7.5 kW); 16.45–22.15 (20 kW) – 6175 kc 48.58 m 20 kW: W. 06.30–08.00, 09.30–16.30. Sun. 06.30–16.30.

NORTHERN REGION: W. 05.00–08.00, 09.30–22.00 (Sat. 23.00). Sun. 05.10–22.00. Kano 1376 kc 218 m 1 kW – Jos, Zaria, Maiduguri, Katsina, Ilorin, Sokoto 1397 kc 214 m 0.25 kW.
EASTERN REGION: W. 05.00–08.00, 09.30–22.00 (Sat. 23.00). Sun. 06.00–23.00. Onitsha, Cababar, Port Harcourt 139 7kc 214 m 0.25 kW.

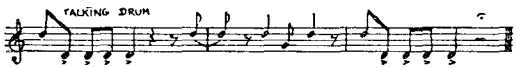
WESTERN REGION: Warri, Ljebu-Ode, Abeokuta*): As Eastern Region. * not yet installed.
ANN.: "This is the Nigerian Broadcasting Corporation" or "This is Radio Nigeria". – **INT.-SIG.: National prgr.:** Talking Drum.



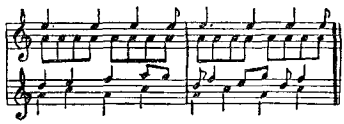
North Regional Programme: Trumpet-Type Instrument.



West Regional Programme: Talking Drum.



East Regional Programme: Snake Drum-Xylophone Bass.



V. by QSL-card. Re. will be welcomed by: The Chief Engineer – **PUB.:** Monthly :Transmission schedules are distributed free of charge. The Nigerian Radio Times available on a subscribtion basis. – **F.PL.:** New studios and equipments at the chain of 0.25 kW stations.

WESTERN NIGERIA RADIOVISION SERVICE (Comm.)

FI.: By Go. of We. Nigeria and advertisements. – **ADDR.:** P. O. Box 1460, Ibadan. **Cable:** "Radiovision". **Te.:** 24384. – **L.P.:** Chairman: N. J. Sabine. Chief Executive: A. J. Mathers. St. Mgr.: H. C. Chambers. Dir. Tec.: M. W. Heffernan. P. R. Mgr.: D. Grant.
HOME SCE. in English: W. 05.00–13.30, 15.00–22.30 (Sat. 23.00). Sun. 06.30–22.05.
Lagos 602 kc 498 m 10 kW. – Ibadan 656 kc 457 m 10 kW.
Ibadan FM 91 mc/s 0.05 kW.
N.: 06.00 (W), 07.00*, 07.10, 12.00, 13.00*, 17.00, 18.00,* 20.00, 22.00 (Sun.), 22.25 (W). *=BBC. – **Folklore Music:** Sun. 10.45, Tues. 11.00. – **Rel.:** Mo.-Fri. 07.45, Sun. 07.30, 10.15, 21.45.
ANN.: "This is the Western Nigeria Radiovision Service". – **V.** by etter. – **PUB.:** "TV Times-Radio News" (weekly).

★ REUNION (French) ★

L.T.: GMT+4 h. – **Pr.L.:** French. – **Po.:** 312.000. – **Rcvrs.:** 12.500. – **E.C.:** 220/310 V., A.C., 50 c/s.

RADIO REUNION (R.diff. Télévision Française)

ADDR.: B. P. 309, St. Denis. – **L.P.:** Chef des Services: J. Billaud.
HOME SCE. in French: W. 02.30–03.45, 08.00–10.30, 14.00–18.00. Sun. 04.00–18.00.
3380 kc/s 88.76 m 1.5 kW: 02.30–03.45, 14.00–18.00.
4820 – 62.24 – 1.5 – : 08.00–10.30, Sun. 04.00–14.00.
N.: W. 02.30, 03.30, 08.30, 14.07, 16.30. Sun. 04.15, 08.30, 16.45. – **Wrp.:** W. 03.30, 14.15, 16.30. Sun. 04.15, 14.00, 16.45.
ANN.: "Ici la Réunion, Radiodiffusion Française". – **INT.-SIG.:** "Madina" (Reunion Folklore). – **V.** by letter. R.p.

★ RHODESIA and NYASALAND ★

L.T.: GMT+2 h. – **Pr.L.:** English, African, Vernaculars. – **Po.:** 8.000.000. – **Rcvrs.:** 100.000. – **E.C.:** 220/380 V., A.C., 50 c/s.

THE FEDERAL BROADCASTING CORPORATION OF RHODESIA & NYASALAND (Indep. statuory body, established by Federal Act of Parliament)

FI.: By State, license payments and adv. **AD.:** Max. 10 min. per h. and 15% of total daily tr. hours.
ADDR.: Travlos House, Stanley Avenue, Salisbury, So. Rhodesia. **Cable:** "Broadcasts". **Te.:** 25685. – **L.P.:** Chairman of Board: The Hon. Sir. R. Hudson. Dir. Gen.: J. Mc. Clurg. Deputy Dir. Gen.: C. K. Grierson-Rickford. Contr. Gen. Sce.: J. H. Parry, O.B.E. Contr. African Sce.: C. Sapseid. Dir. Tec.: J. M. Reeves, M.I.E.E., M.I.R.E.
GENERAL and COMMERCIAL SERVICES:
Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Salisbury	584	514	2	Kitwe	548	547	20
Bulawayo	611	491	2	Lusaka	962	312	2
Que Que	746	402	0.075	Umtali	980	306	2
Gatooma	791	379	2	Gwelo	1043	288	2
Short Waves:							
Salisbury	3396	88.36	10	Salisbury	6018	48.84	10
Lusaka	4911	61.08	10	Lusaka	7220	41.55	10
				Lusaka	9505	31.56	10

General Sce.: W.: 10.00–12.00, 15.00(Sat. 14.00)–20.00. Sun. 06.00–12.00, 15.00–20.00
Commercial Sce.: W.: 04.00–10.00, 20.00–21.05(Sat. 22.00).
3396 kc/s: 04.00–05.00, 20.00–21.05(Sat. 22.00). **4911 kc/s:** 04.00–05.45, 20.00–21.05(Sat. 22.00). **6018 kc/s:** 05.00–10.00. **9505 kc/s:** 05.45–10.00.
N.: 05.00, 06.00, 10.10, 11.00, 11.15, 18.00, 18.10, 21.00. – **Wrp.:** 04.00, 17.55.
AFRICAN SERVICE:
"A" Prgr.: W. 04.00–06.10, 10.00–19.00. Sun. 11.00–19.00.
"B" Prgr.: D. 14.00–18.00.
STATIONS:
Lusaka 1376 kc/s 218 m 2 kW: "A" as above.
Lusaka 3346 – 89.60 – 2.5 – : "A" W. 04.00–06.10, 15.00–19.00
Zomba 3955 – 75.80 – 2.5 – : "A" D. 16.00–19.00
Lusaka 4826 – 62.16 – 15 – : "B" D. 14.00–18.00
Lusaka 9580 – 31.32 – 2.5 – : "A" D. 10.00–14.45
A.-PRGR.: English & Vernaculars (Chibemba, Chishona, Chinyanja, Silozi, Sindebele, Chitonga, Chilunda, Luvale).
English: W.: 04.00–06.00, 18.00–19.00. – **N.:** 18.00.
N. in Vernaculars: 10.45, 15.00. – **Wrp.:** 17.55. – **L.L.: E. by R.:** Mo.–Fri. 17.50.
B.-PRGR.: Vernaculars only: 14.00–18.00 on 4826 kc/s.
ANN.: English Sce.: "This is the Federal Broadcasting Corporation of Rhodesia and Nyasaland". – **African Sce.:** "This is the Federal Broadcasting Corporation of Rhodesia and Nyasaland's African Sce". "This is Lusaka". "Kuno ndi Lusaka".
INT.-SIG.: African Sce.: Kalimba Xylophone 17.58 D. – **V.** Listeners reports within the Federation required. – **F.PL.:** Gwelo: 10 kW sw-tr.; Lusaka: 20 kW sw-tr. (both for African Sce.).

★ RUANDA-URUNDI ★
(Belgian Trusteeship Territory)

L.T.: GMT+2 h. – **Po.:** 4.700.241. – **Rcvrs.:** 50.000. – **E.C.:** 220 V., A.C., 50 c/s.

RADIO USUMBURA (Go.)

ADDR.: Boite Postale 1400, Usumbura. **Cable:** Radiodiffusion. **Te.:** 2236. – **L.P.:** Dir. of Inf.: P. Chotteau. St. Dir.: H. van Molle. Dir. Tec.: van de Wynckel.
HOME SERVICE: 6195 kc/s 48.43 m 10 kW: 04.30–05.30, 10.00(Sun. 08.00)–11.15, 15.00–20.00. – **N.: French:** 05.00*, 10.15, 10.30*, 18.00, 19.30*. (* relay Brussels).
Kirundi: 11.00, 17.00. **Kinyarwanda:** 11.05, 17.10. **Kiswahili:** 17.20.–**Rel.:** French: Sun. 08.00. Sun. 19.45. Kirundi/Kinyarwanda: Tues., Fri. 16.00.
ANN.: F.: "Ici Usumbura, station de radiodiffusion du Ruanda-Urundi, émettant dans la bande de 48 m, soit sur 6195 kc/s". – **INT.-SIG.:** Umuduli (native wooden instrument). – **V.** by letter. Re. in E, F, Dutch, G, Afrikaans. – **F. PL.:** Weekly prgr. (Wed. at 19.45) for Foreign Listeners; St. at Kigali (Ruanda). – **PUB.:** Bulletin free on request to: Govt. of Ruanda-Urundi, B.P. 480, Usumbura.

★ SAO TOMÉ E PRINCIPE (Port W.Africa) ★

L.T.: GMT. – Pr.L.: Portuguese. – Po.: 62.000. – Rcvrs.: 8.000.

R. CLUBE DE SAO TOMÉ (Comm.)
ADDR.: Avenida da Armada, São Tomé. – L.P.: Pres.: A. da Silva Ramalho. – HOME SCE.: CR5SC 4807 kc/s 62.41 m 1 kW; 19.00–21.00. – V. by QSL-folder.

★ SENEGAL (Republic) ★

L.T.: GMT. – Pr.L.: French. – Vernaculars: Peulh, Ouolof, Sérère, Diola, Toucouleur, Sarakholé, Manding. – Po.: 2.575.000. – Rcvrs: 125.000 – E.C.: 127/220 V., A.C., 50 c/s.

RADIODIFFUSION DU SENEGAL (Go.)
ADDR.: B. P. 1.765, Dakar. Cable: Radio Senegal. Te.: Standard 320.72. – L.P.: Dir. Adm.: M. Diokhane. Dir. Tec.: C. Mathieu.
HOME SERVICE:
NATIONAL NETW.: W. 06.30–08.00, 12.00–14.00, 18.15–23.30. Sat. 06.30–08.00, 12.00–23.30. Sun.: 08.15–23.30.
1538 kc/s 196 m 10 kW: as above
4955 kc/s 60.54 m 25 kW: 06.30–08.00, 18.15–23.30
7210 kc/s 41.61 m 25 kW: 08.00–18.00
11895 kc/s 25.22 m 100 kW: as above
15365 kc/s 19.49 m 100 kW: 17.45–18.00.
N.: French: W. 06.30, 07.15, 07.55, 12.35, 13.00, 13.55, 20.00, 22.30, 23.25. Sun.: 08.30, 13.00, 20.00, 22.30. – Arabic: 18.15. – Portuguese: 18.20. – English: 13.15, 20.15.
REGIONAL NETW.: W.: 06.30–08.00, 12.30–14.00, 17.30–23.00. Sat.: 06.30–08.00, 12.30–24.00. Sun.: 08.00–23.30.
1304 kc/s 230 m 8 kW; as above
4893 kc/s 60.32 m 4 kW: 06.30–08.00, 19.00–24.00.
7171 kc/s 41.84 m 4 kW: 08.00–19.00.
N.: French: W. 07.10, 13.00, 20.00 22.30. Sun.: 08.45, 20.00, 22.30. – Vernacular: 06.50, 13.15, 17.35, 17.55, 18.15, 18.35, 18.50, 19.15. Sun.: 08.30. 13.15.
FOREIGN SERVICE to Europe:
15385 kc/s 19.49 m 100 kW: Thurs., Fri.: 17.45–18.00.
ANN.: F.: "Ici Radio Sénégal, Chaîne Nationale émettant de Dakar dans la bande des..." ou "Ici Radio Sénégal, Chaîne Régionale émettant de Dakar dans la bande des...". Foreign Sce.: "Ici Dakar – service spécial" .– INT.-SIG.: Tam-Tam. – V. by QSL-card. R. p. – PUB.: Prgr. sched. free on request. R. p.

★ SEYCHELLES (British) ★

L.T.: GMT+4 h. – Pr. L.: English, French, Creole. – Po.: 43.000. – Rcvrs.: 800. – E.C.: 220 V., D. C.

SEYCHELLES BROADCASTING SERVICE (Go.)
FI.: By Go. and U.K. Colonial Development and Welfare Funds.
ADDR.: Education Department, Mahé.
L.P.: Dir. of Education: G. I. Michael, O. B. E.
HOME SERVICE: ZCQ3 4990 kc/s 60.12 m 0.04 kW; D. 14.15–16.15. – V. by letter.

★ SIERRA LEONE (British West Africa) ★

L.T.: GMT – Pr. L.: English, Mende, Temne, Creole – Po.: 2.000.000 – Rcvrs.: 5000 – E.C.: 230 V., A.C., 50 c/s.

SIERRA LEONE BROADCASTING SERVICE (Go.)
ADDR.: New England, Freetown – L.P.: Dir.: L. A. Perowne. Head of Prgr.: J. J. Akar. Dir. Tec.: J. C. Griggs.
HOME SCE.: 06.40–08.00, 15.45–22.00 – 33316 kc/s 90.46 m 5 kW.
N.: English: BBC: 07.00, 20.00 – N.: Local: 06.45, 20.10. Vernaculars: 06.50, 18.00 – African Music: Mo. 18.30, Fri. 17.15, Sat. 20.30.
ANN.: "This is the Sierra Leone Broadcasting Service" – INT.-SIG.: "The rain is coming" played by Military Band – V. by letter – F.PL.: 10 kW sw.-tr., 0.5 kW sw.-tr. 1961 – PUB.: Weekly bulletin published by Information Dept.

★ SOMALILAND ★

L.T.: GMT+3 h. Pr. L.: Somali, Italian. – Po.: 1.500.000. – Rcvrs.: 22.000.

NATIONAL BROADCASTING STATION (Go.)
ADDR.: Radio Mogadiscio, Mogadiscio.
HOME SCE.: 7150 kc 41.96 m 5 kW – 4970 kc 60.36 m 0.25 kW National prgr. in Somali, Italian, Arabic: 09.30–11.00, 13.00–15.30, 16.30–19.00. The adoption of a prgr. in English is planned.
ANN.: I.: "Trasmette Mogadiscio".

★ SOMALILAND (Protectorate) ★

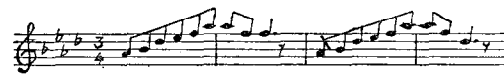
L.T.: GMT+3 h. – Pr.L.: Somali, English, Arabic. – Po.: 650.000. – Rcvrs.: 2.000. – E.C.: 250 V., D.C., 50 c/s.

RADIO SOMALI (Go.)
ADDR.: P.O. Box 14, Hargeisa. Cable: Informat. – L.P.: Inf. Officer: J. M. Webber.
HOME SCE.: 4797 kc/s 62.54 m 5 kW – 9667 kc/s 31.04 m 1 kW
D. PRGR.: D. 13.30–17.30. Somali: 13.30–15.30, 16.30–17.30. N.: 14.15, 17.00. Mbg.: Sun. 15.45. – English: 15.30–16.30. N.: 16.00.
ANN.: "Halkan Waa Hargeisa. Radio Somali" (This is Hargeisa, Radio Somali). – INT.-SIG.: March. – V.: Reports sought only from Somali-speaking audience, but all reports acknowledged by photographic QSL. – F.PL.: 10 kW s.w. tr.

★ SOMALILAND (French) ★

L.T.: GMT+3 h. – Pr.L.: French, Somali, Afar, Arabic. – Po.: 67.300. – Rcvrs.: 3.000. – E.C.: 220 V., D.C.

RADIO-DJIBOUTI (Radiodiffusion Télévision Française)
ADDR.: B.P. 97, Djibouti. Cable: "R. Djibouti". Te.: 177. –
L.P.: Dir.: P. Farinés. Dir. Tec.: L. Sebastien.
HOME SERVICE: 03.30–05.00, 09.00–10.00, 14.30–20.00.
1538 kc/s 195.0 m 1 kW: as above
4780 – 62.76 – 4 – : 03.30–05.00, 14.30–20.00
6000 – 50.00 – 4 – : 09.00–10.00
French: 04.00–04.30, 09.00–09.35, 17.00–19.00. – N.: 04.15, 09.15, 17.15. – Wrp.: 09.35, 17.30. – Vernaculars: 03.30–04.00, 09.35–10.00, 14.30–17.00. N. in Somali: 03.40, 09.35, 15.00. N. in Afar: 03.54, 09.47, 16.00. – Arabic: 04.30–05.00, 16.30–17.00, 19.00–20.00. N.: 04.35, 09.54, 16.30, 20.00.
ANN.: "Ici Djibouti, Radiodiffusion Télévision Française".
INT.-SIG.: Extrait d'une mélodie somalie. – V. by letter. R.p.



★ SUDAN ★

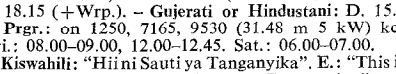
L.T.: GMT+2 h. – Pr.L.: Arabic, English. – Po.: 10.700.000. – Rcvrs.: 10.000. – E.C.: 115/200 V., A.C., 50 c/s.

SUDAN BROADCASTING SERVICE (Go.)
ADDR.: P. O. Box 522, Khartoum. Cable: "Irshad". – L.P.: Senior Controller Broadc.: M. A. Khangi.
HOME SCE.: 575 kc/s 521.7 m 50 kW – 4990 kc/s 60.12 m 20 kW – 7200 kc/s 41.67 m 20 kW – 9600 kc/s 31.25 m 7.5 kW.
Arabic: 04.15–05.30 (Fri. 11.00), 14.30–21.00. N.: 04.30, 16.40, 19.10. – Local Prgr. (for So. Sudan): 14.00–14.30 (Sun. 08.00–09.00). – English Half Hour: D. 12.30–13.00.
ANN.: Arabic: "Huna Omdurman". E.: "This is the Sudan Broadcasting Service". – V. by letter.

★ TANGANYIKA (British UN Trust Territory) ★

L.T.: GMT+3 h. – Pr.L.: English, Kiswahili, Gujerati, Hindustani. – Po.: 8.456.000. – Rcvrs.: 50.000. – E.C.: 240 V., A.C., 50 c/s.

TANGANYIKA BROADCASTING CORP. (Indep.-Comm.)
FI.: State, licenses, advertisements. – ADDR.: Broadcasting House, Box 9191, Dar-Es-Salaam. Cable: "Sauti". Te.: 63.342. – L.P.: Dir. Gen.: T. W. Chalmers, C.B.E., B. Sc. Dir. Prgrs.: C. W. W. Ryan M. A. Chief Eng.: R. A. Muir A. M. I. E. E. Nat. Prgr. Org.: B. Eccles M. A. Second Prgr. Org.: P. Forbes.
HOME SERVICE:
National Prgr. (Kiswahili):
1250 kc/s 240.0 m 1.3 kW, 5050 kc/s 59.41 m 20 kW, 7165 kc/s 41.87 m 20 kW: 03.15–05.00, 09.00–10.30 13.30–19.15 (Sat. 19.30) N. 04.00, 15.45 (BBC), 17.00. Wrp.: 17.00
2nd Prgr. (English & Asian):
1025 kc/s 292.7 m 1.3 kW, 4785 kc/s 62.70 m 10 kW, 7280 kc/s 41.21 m 10 kW.
English: 09.00–11.00, 16.30–19.15 (Sat. 19.30). – N.: 04.30, 18.00 (BBC), 18.15 (+Wrp.). – Gujerati or Hindustani: D. 15.30–16.30. – School Prgr.: on 1250, 7165, 9530 (31.48 m 5 kW) kc/s.
Mo.-Fri.: 08.00–09.00, 12.00–12.45. Sat.: 06.00–07.00.
ANN.: Kiswahili: "Hii ni Sauti ya Tanganyika". E.: "This is the second prgr. of the Tanganyika Broadcasting Corporation". – INT.-SIG.: Celeste.



V. by letter. Re. not wanted.

★ TCHAD (Rep.) ★

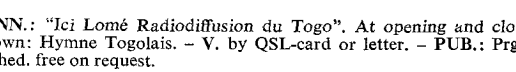
L.T.: GMT+1 h. – Pr.L.: French, Arabic, Sara. – Po.: 2.580.000. – Rcvrs.: 6.000.

RADIO-TCHAD (Go.)
ADDR.: B. P. 168, Fort Lamy. Cable: "Radio Tchad". Te.: 158. – L.P.: Dir.: M. Violante.
HOME SCE.: W. 12.00–14.00, 16.00–21.00. Sun.: 07.00–21.00.
1538 kc/s 195.0 m 1 kW: as above
4904.5 – 61.18 – 4 – : 16.00 (Sun. 17.00)–21.00
9585 – 31.30 – 4 – : 07.00–16.00 (Sun. 17.00).
French: W.: 12.00–13.00, 16.00–17.00, 19.00–21.00. Sun.: 07.00–13.00 14.00–17.00, 19.00–21.00. – N.: 12.30, 19.00, 20.55. – Sport & Music (rel. from Paris): Sun. 14.00–17.00.
Arabic: 13.00–13.30, 18.00–19.00. – N.: 13.10, 18.10.
Sara: 13.30–14.00, 17.00–18.00. – N.: 13.40, 17.10.
ANN.: "Ici Fort Lamy, Radiodiffusion de la République du Tchad émettant dans les bandes..." or "Ici Fort Lamy, Radiodiffusion du Tchad". – INT.-SIG.: French (open and close down): Marseillaise. Arabic: Notes played on lute (local). Sara: Notes played on "balafons" (local). – V. by QSL-card. R.p. – F.PL.: Change of frequencies, increase of tr.time early 1961.

★ TOGO (Republic) ★

L.T.: GMT. – Pr.L.: French, Ewe, Cabrais, Cotocolis, Haoussa, Moba, Bassari. – Po.: 1.085.000. – Rcvrs.: 3000. – E.C.: 130/230 V, A.C., 50 c/s.

RADIODIFFUSION DU TOGO (Go.)
FI.: By Go. and SORAFOM. – ADDR.: B.P. 434, Lomé. Cable: Radio Togo. Te.: 2493. – L.P.: Dir.: G. Ekue.
HOME SERVICE: W. 06.00–08.00, 12.00–13.30, 17.30–22.00 (Sat. 12.00–23.00). Sun. 07.00–14.00, 17.00–22.00.
1394 kc/s 215 m 1 kW: as above
5047 – 59.44 – 4 – : 06.00–08.00 (Sun. 10.00), 17.30 (Sat. 15.15)–23.00.
7265 – 41.29 – 4 – : 10.00–15.15.
N.: French 06.02 (W), 06.35 (W), 07.35 (Sun.), 12.30, 19.30, 21.30.
Wrp.: 06.55, 08.00. Vernaculars: W. 17.30–19.00.
INT.-SIG.:



ANN.: "Ici Lomé Radiodiffusion du Togo". At opening and close down: Hymne Togolais. – V. by QSL-card or letter. – PUB.: Prgr. sched. free on request.

★ TUNISIA ★

L.T.: GMT+1 h. – Pr.L.: Arabic. – Po.: 4.000.000. – Rcvrs.: 100.000. – E.C.: 110/190 V., A.C., 50 c/s.

RADIODIFFUSION TELEVISION TUNISIENNE (Go.)
FI.: By state and license payments. – ADDR.: 139 av. de Paris, Tunis. Te.: 259.311. – L.P.: Dir. Gen.: C. Klibi. Dir. Adm.: M. Mehiri. Dir. Tec.: M. Chaffai.
HOME SERVICE:
Arabic Network: Mo.-Thurs.: 05.00–08.00, 11.00–14.00, 16.00–22.00. Fri., Sat.: 05.00–08.00, 11.00–22.00. Sun. 05.00–22.00.
Tunis I 629 kc/s 477 m 100 kW – Sfax II 584 kc/s 514 m 1 kW
Tunis III 6105 – 49.14 – 50 kW.
N., Wrp.: 05.45, 06.30, 07.25, 11.00, 12.00, 13.30, 16.00, 17.00, 18.00, 19.00, 21.45.
French Network: Mo.-Fri.: 05.30–07.00, 11.00–13.00, 17.00–22.00. Sat.: 05.30–07.00, 11.00–22.00. Sun. 06.00–22.00.
Tunis II 962 kc/s 312 m 100 kW – Sfax I 1421 kc/s 211 m 0.05 kW
N., Wrp.: 05.30, 06.45, 11.00, 12.15, 17.00, 18.30, 21.30.
FOREIGN SERVICE: Provisional short-wave schedule:
Arabic: 05.00–08.00, 11.00–13.00, 16.00–23.00 on 6105 kc/s.*
ANN.: Arabic: "Huna al ida'a att Tunissia". – French: "Ici Tunis Radiodiffusion Télévision Tunisienne". – V. by QSL-card. Re. in English or French. – PUB.: Prgr. sched. free on request. "El Idhaa" (in Arabic) twice monthly.
*) Reported: To Middle East: 04.30–11.00 on 17795 kc/s, 11.00–18.00 on 17705 kc/s, 19.00–21.15 & 21.45–23.00 on 11970 kc/s. To Morocco: 18.00–19.00 on 11970 kc/s. To Algeria: 21.15–21.45 on 5985 kc/s ĵ

★ UGANDA (British) ★

L.T.: GMT+3 h. – Pr.L.: English, Luganda, Lwo, Ateso, Runyankore/Rukiga, Lugbara, Hindustani, Runyoro, Rutoro. – Po.: 6.356.175 – Rcvrs.: 85.000. – E.C.: 240/415 V., A.C., 50 c/s.

UGANDA BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 142, Kampala. Cable: Knowledge. Te.: 3147. – L.P.: Dir. Inf.: A. G. Ridley, M. V. O. Head of Prgr.: J. Kenyon. Chief Broadc. Eng.: A. Stephenson, Assoc. I. E. E.
HOME SCE.: S.w. 7.5 kW. M.w. 0.5 kW. W. 12.30 (Sat. 11.00)–19.30. Sun. 07.00–19.30.
5026 kc/s 59.70 m d. – 7110 kc/s 42.19 m d. – 9590 kc/s 31.28 m d.
548 – 547.5 – – 971 – 309 –
Daily up to 14.00 on 9590 kc/s. Daily from 14.15 on 5026 kc/s.
English: D. 17.30–19.30. Sun. also 07.00–08.00. N.: 18.00 (BBC). – Wrp.: 17.40. – Vernaculars: D. 12.30 (Sat., Sun. 11.00)–14.00; 14.15–17.30, Sun. also 08.00–10.30. – Hindustani: Sun. 10.30–11.00.
ANN.: E.: "This is the Uganda Broadcasting Service, Kampala". – Luganda: "Eno ye Uganda Broadcasting Service, Kampala". – Lwo: "Man en aye Uganda Broadcasting Service, Kampala". – Ateso: "Ne nges Uganda Broadcasting Service, Kampala". – Runyoro: "Enu niyo Uganda Broadcasting Service, Kampala". – V. by QSL-acrd. – F.PL.: 3 channel transmissions providing powerful M.W. tr. for major population areas and S.W. for remoter areas. Approx. 1962.

★ UNION OF SOUTH AFRICA ★

L.T.: GMT+2 h. – Pr.L.: English, Afrikaans. – Po.: 14.200.000. – Rcvrs.: 986.050. – E.C.: 220/380 V., A.C., 50 c/s.

S. AFRICAN BROADCASTING CORPORATION (Indep. Org.) F.I.: By license payments and adv.
ADDR.: P. O. Box 8606, Johannesburg. Cable: Broadcast. Te.: 231151. L.P.: Chairman of the Board of Governors: Dr. P. J. Meyer. Vice-Chairman: W. J. Lamb. Dir. Gen.: Gideon Roos. Deputy Dir.-Gen.: N. L. Filmer. Head of Adm.: J. P. A. van der Walt. Chief Engineer: H. O. Collett. Chief Accountant: R. C. Strike. Head English Sce.: H. J. Howell. Head of Afrikaans Sce.: M. M. van Lille. Head of Comm. Sce. (Springbok Radio): P. S. Louw. Head of News: A. M. van Schoor

HOME SERVICES:
National Medium-Wave Stations:

	ENGLISH SCE.	AFRIKAANS SCE.	COMM. SCE.
Johannesburg:			
West Rand	638 kc 470 m	719 kc 417 m	575 kc 522 m
East Rand	1034 kc 290 m	827 kc 363 m	1286 kc 233 m
Pretoria	1439 kc 208 m	1097 kc 273 m	1268 kc 236 m
Bloemfontein	674 kc 445 m	593 kc 506 m	782 kc 384 m
Kimberley	1070 kc 280 m	1241 kc 242 m	962 kc 312 m
Grahamstown	620 kc 484 m	701 kc 428 m	809 kc 371 m
Port Elizabeth	1313 kc 228 m	1043 kc 288 m	1178 kc 255 m
East London	1025 kc 293 m	1151 kc 261 m	908 kc 330 m
Cape Town	656 kc 457 m	557 kc 539 m	728 kc 412 m
Durban	566 kc 530 m	692 kc 433 m	800 kc 375 m
Pietermaritzburg	764 kc 392 m	665 kc 451 m	845 kc 355 m
Pietersburg	1115 kc 269 m	863 kc 348 m	989 kc 303 m

D. PRGR.: English and Afrikaans Services: W.: 04.30–21.15. Sun.: 05.30–21.15. – N.: 05.00 (W), 06.00, 11.15, 16.00, 17.00 (W), 19.00, 21.00. – Folklore Music (Afrikaans Sce.): W. 04.30, 08.15, 21.15. Wed. 16.15 "Boermusiek". – French N. on Afrikaans Sce. 16.05.
D. PRGR.: Commercial Service (Springbok Radio):
W.: 03.00–22.00. Sun.: 05.00–21.00. (Remains on the air from Fri. 03.00 until Sat. 22.00).
National Shortwave Stations (Paradys):

ENGLISH SCE.	AFRIKAANS SCE.	COMM. SCE.
3316 kc/s 90.47 m	3376 kc/s 88.89 m	3356 kc/s 89.42 m
4810 kc/s 62.37 m	4895 kc/s 61.29 m	4945 kc/s 60.67 m
7230 kc/s 41.49 m	7295 kc/s 41.12 m	7185 kc/s 41.76 m
9680 kc/s 30.99 m	9525 kc/s 31.50 m	9720 kc/s 30.86 m
11900 kc/s 25.21 m	11840 kc/s 25.34 m	11935 kc/s 25.14 m

Shortwave schedules for the Home Services are determined by ionospheric conditions. The table below gives the approximate times of use for the various wavebands:

03.00–05.30 90, 60	07.30–10.30 41, 31, 25	16.45–22.00 90, 60
05.30–06.30 60, 41	10.30–15.00 41, 31	22.00–03.00 90
06.30–07.30 60, 41, 31	15.00–16.45 60, 41	

AFRICA SERVICE:
(International St. at Paradys near Bloemfontein)
11935 kc/s 25.14 m: 18.00–20.00 17855 kc/s 16.80 m: 17.00–20.00
15265 kc/s 19.66 m: 11.00–20.00 21495 kc/s 13.96 m: 11.00–17.00
English: Tues., Thurs., Sat. – Afrikaans: Mo., Wed., Fri.
INT.-SIG.: Afrikaans Sce. 04.28: "Vêr in die Wêreld Kittie" (Folksong). Comm. Sce. (02.57): First three notes of "Pak you goed en trek Fereira". – V. by QSL-card for all Services. – PUB.: "SABC Radio Bulletin".

★ UPPER VOLTA (Republic) ★

L.T.: GMT – Pr. L.: French, Vernaculars – Po.: 3.760.000 – Rcvrs.: 15.000 – E.C.: 230/400 V., A.C., 50 c/s.

RADIO HAUTE-VOLTA (Go.)
FI.: By state and SORAFOM. – ADDR.: B. P. 410, Ouagadougou. Cable: "Radiovolta". Te.: 214 – L.P.: Dir. Gen.: H. da Piedade. Dir. Tec.: M. Dupont. Dir. Prgr.: D. Konare.

HOME SERVICE in French, Vernaculars:
W. 12.15–13.30, 18.00–22.00 (Sat. 23.00). Sun. 09.30–23.00.
1439 kc/s 208.4 m 1 kW: as above
4815 – 61.31 – 25 – : 18.00–22.00 (Sat., Sun. 23.00)
9515 – 31.53 – 25 – : 12.15–13.30 (Sun. 09.30–18.00)
N. in French: 12.45, 20.00 – **Folklore Music:** Sun. 18.30 – **Rel.:** Sun. 11.10 (Protestant), 11.25 (Catholic) – **Vernaculars:** Peulh 18.00, Mossi 18.15, Dioula 18.30, Gourounsi 18.45, Gourmantché 19.00, Lobi 19.15.
ANN.: "Ici Quagadougou, Radiodiffusion de la Haute-Volta émettant sur..." – **F.PL.:** Three reg.st's of 1 kW each.

★ ZANZIBAR (British) ★

L.T.: GMT+3 h. – **Pr.L.:** Kiswahili, English, Arabic – **Po.:** 299.111 – **Rcvrs.:** 5147 – **E.C.:** 240 V., A.C., 50 c/s.

VOICE OF ZANZIBAR – SAUTI YA UNGUJA (Go.)

FI.: By state and spot adv. – **ADDR.:** P.O. Box 222, Zanzibar. **Cable:** Broadcasting. **Te.:** 2128 – **L.P.:** Inf. Officer, Sheik Y. Alawi M.B.E. Dir. Tec.: N. J. A. Frigout. Dir. Prgr.: Sheik Y. M. Yussuf.
HOME SCE.: Kiswahili; occ. items in English, Arabic, Urdu.
600 kc/s 500 m 0.25 kW
6005 – 49.96 – 3.5 – } W.: 10.30–11.30, 13.30–16.30.
4795 – 62.54 – 0.25 –
3339 – 89.80 – 0.25 – } Special sce. and darkness.tr.
N.: 10.25 (Fri. 10.40), 13.45, 15.45.
ANN.: Swahili: "Hi ni Sauti ya Unguja". **Arabic:** "Hadha Saut Zinjibar". **English:** "This is Zanzibar calling on..." – **INT.-SIG.:** Musical Chords – **V.:** Reports not required outside Ea. Africa – **PUB.:** Weekly prgr. free on request.

★ ADEN (British Colony) ★

L.T.: GMT+3 h. – **Pr. L.:** Arabic, English. – **Po.:** 140.000. – **Rcvrs.:** 32.000. – **E.C.:** 230 V., A.C., 50 c/s.

ADEN BROADCASTING SERVICE (Go.)

ADDR.: P.O. Box 1264, G. P. O., Aden. **Cable:** Broadcasts. – **L.P.:** Dir. Gen.: N. J. Watt, Dir. Prgr.: A. Zokari. Dir. Tec.: D. A. Import.
HOME SCE. in Arabic: 03.30–05.00 (D. exc. Fri., Sun.), 06.30–10.00 (Fri. & Sun.), D. 12.00–21.00.
809 kc/s 370.8 m 5 kW – 7170 kc/s 41.84 m 7.5 kW d.
N.: 12.00, 14.00, 15.30, 17.00, 17.45. **Relay BBC:** 18.00, 19.15, 20.15.
ANN.: "Huna Adan" (This is Aden) or "Mahatatu Adan Lil idha'a". (This is the Aden Broadcasting Service) – **V.** by QSL-card or letter. R. p. preferred – **Prgr. sched.** free on request.

ADEN FORCES BROADCASTING ASSOCIATION (Mil.)

ADDR.: R. A. F. Station, Khormaksar, Aden. – 1025 kc/s 293 m: 69 broadc. hours per week in **English.**

★ AFGHANISTAN ★

L.T.: GMT+4½ h. **Pr. L.:** Pushto, Persian – **Po.:** 13.000.000 – **Rcvrs.:** 20.000 – **E.C.:** 230 V., A.C., 60 c/s.

AFGHAN BROADCASTING SYSTEM (Go.)

ADDR.: R. Kabul, Baghe Omomi, Kabul. **Cable:** Aftel – **L.P.:** Pres.: M. Benewa. Dir. Dr. M. Habibi.
STATIONS:
660 kc/s 454.5 m 20 kW 6000 kc/s 50.00 m 50 kW
4755 – 63.09 – 50 – 15385 – 19.50 – 50 –
HOME SERVICE: 02.30–04.30 & 07.30–08.30 11.30–18.00 on 660 4755/6000 kc/s.
FOREIGN SERVICE:
13.30–14.00 **Urdu** on 660/4755/6000 kc/s.
14.00–14.30 **English** on 660/4755/6000 kc/s.
18.00–18.30 **Arabic** on 15385 kc/s
18.30–19.00 **French** on 15385 kc/s (for Europe)
19.00–19.30 **English** on 15385 kc/s (for Europe)
ANN.: Pushto: "Da Kabul dai" – **INT.-SIG.:** A record on national flute – **V.** by QSL-card.

★ BAHRAIN ★

L.T.: GMT+4 h. – **Pr. L.:** Arabic. – **Po.:** 143.213. – **Rcvrs.:** 12.000. – **E.C.:** 230/400 V., A.C., 50 c/s.

BAHRAIN BROADCASTING STATION (Go.)

ADDR.: Department of Public Relations and Broadcasting, Manama. Bahrain, Persian Gulf. – **L.P.:** Dir. of Public Relations & Broadc.: H. J. Mandell. Dir. of Broadc.: L. A. Kanoo. Dir. Tec.: S. A. Khan.
HOME SCE.: 610 kc 491.8 m 2 kW: D. 16.00–19.00. Fri. also 04.30–06.30. – **N.:** D. 17.30. – **Wrp.:** 17.45.
ANN.: Arabic: "Huna Bahrain, Il-Iza'a Al-Bahrainia Al-La silkia". **E.:** "Here is Bahrain. The Bahrain Broadcasting Station". – **INT.-SIG.:** Toy Symphony. – **V.** by letter. – **PUB.:** Fortnightly: "Bahrain Calling" in Arabic. Write for copy.

★ CYPRUS ★

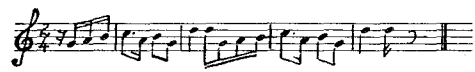
L.T.: GMT+2 h. – **Pr. L.:** Greek, Turkish – **Po.:** 550.000 – **Rcvrs.:** 100.000 – **E.C.:** 240 V., A.C., 50 c/s.

CYPRUS BROADCASTING CORPORATION (Go. and Comm.)

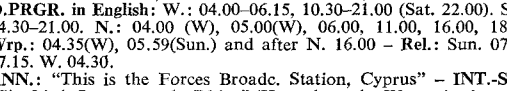
FI.: Go. subsidised and Comm. adv. income. **AD.:** 30 min. daily.
ADDR.: P.O. Box 824, Nicosia. **Cable:** "Broadcasts". **Te.:** 5231 – **L.P.:** Dir. Gen.: V. I. Markides. Ag. Chief Eng.: P. T. Astreos. Secr.: R. L. Cash.

HOME SERVICE.:

GREEK PRGR.:
Nicosia 692 kc 434 m 20 kW – Paphos 915 kc 326 m 2 kW
W.: 04.30–06.00, 10.30–12.15, 15.00–21.00. Sun. 05.00–12.15, 15.00–21.00. **N.:** D. 05.00, 12.00, 17.30, 20.00. – **Request Prgr.:** D. 16.05–16.45. Fri. 18.15–19.15.
TURKISH PRGR.:
Nicosia 606 kc 495 m 20 kW.
W.: 04.30–06.00, 10.30–12.00, 15.00–17.00, 17.30–21.00. Sun. 05.00–12.00, 15.00–17.00, 17.30–21.00. **N.:** D. 05.30, 06.00 (Sun), 13.45, 17.30, 20.00.
ENGLISH PRGR.: W. 06.00–10.30 on 606/915 kc, D. 12.00–13.00 on all freq's, D. 17.00–17.30 on 606 kc. **N.:** W. 07.00 (BBC), D. 12.00, 17.00.
ANN.: Greek: "Radiofonikon Idryma Kyprou". – **Turkish:** "Burasi Kibris Radyo Yayin Korporasyonu". – **V.** by letter.
INT.-SIG.:



HQ FORCES BROADCASTING SERVICE. Networks Headquarters, Forces Broadcasting Service, Middle East Land Forces.
FI.: by the State (Brit. Go.) – **ADDR.:** British Forces Post Office 53, Nicosia. **Cable:** HQ Forces Broadc. Service Cyprus. **Te.:** Nicosia 3118 – **L.P.:** Chief Broadc.: R. W. Morgan. St. Commander: P. Buckle. Dir. Tec.: J. Bull. Chief Prgr.: Miss P. A. Livingstone.
STATIONS: 1439 kc/s 208 m 7.5 kW – 1425 kc/s 210 m 7.5 kW.
D.PRGR. in English: W.: 04.00–06.15, 10.30–21.00 (Sat. 22.00). Sun. 04.30–21.00. **N.:** 04.00 (W), 05.00(W), 06.00, 11.00, 16.00, 18.00. **Wrp.:** 04.35(W), 05.59(Sun.) and after N. 16.00 – **Rel.:** Sun. 07.15, 17.15. W. 04.30.
ANN.: "This is the Forces Broadc. Station, Cyprus" – **INT.-SIG:** "Siegfrieds Journey to the Rhine" (Horn theme by Wagner), played on French Horn.



Close Down Theme: "Evening Hymn and Last Post".
V. by QSL-card. **PUB.:** Prgr.-schedule free on request. R. p. – **F.PL.:** Replacement with VHF FM tr's 90.6, 95.8, 98.2 mc/s 20 kW 1962.

★ IRAN ★

L.T.: GMT+3½ h. – **Pr. L.:** Persian – **Po.:** 20.000.000 – **Rcvrs.:** 425.000 – **E.C.:** 220 V., A.C., 50 c/s.

GENERAL ADMINISTRATION OF PUBLICATIONS AND BROADCASTING (Go.)

FI.: Budget paid by Go. – **AD.:** Allowed, income goes straight to the Treasury – D. four times (resp. 15, 15, 2, 2 mins.)
ADDR.: Radio Iran, Meidan Ark, Teheran. **Te.:** 51.161 – **L.P.:** Dep. Prime Minister: H. Exc. N. Moinian. Dir. Tec.: Eng. Atefi.

HOME SERVICE:

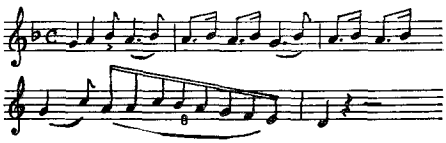
RADIO IRAN: D. 24 h. in Persian.
1340 kc/s 223.9 m 100 kW 7285 kc/s 41.18 m 100 kW
3780 – 79.35 – 100 – 9660 – 31.06 – 100 –
06.30–12.00 on 1340/3780/9660 kc/s, 12.30–17.30 on 1340/3780/7285 kc/s, 17.30–20.30 on 1340/3780 kc/s, 20.30–01.45 on 1340 kc/s, 01.45–06.30 on 1340/3780/7285 kc/s.
N.: 02.30, 03.30, 05.30, 06.30, 08.27, 09.30, 10.30, 11.00, 12.30, 13.30, 14.30, 15.30, 16.30, 17.30, 19.30, 20.30. – **Wrp.:** 11.00, 17.30. – **Folklore Music:** D. 08.13 – **Rel.:** D. 08.30, Thurs. 16.30 (talk).

RADIO TEHRAN in Persian: 100 kW.
895 kc/s 335.2 m: 06.30–17.15, 19.15–19.30.
7285 – 41.18 – 9660 kc/s 31.06 m: 19.15–19.30.
Kurdish: 17.30–18.30 on 895/9660 kc/s.

FOREIGN SERVICE: 100 kW.
To M. East: Urdu: D. 12.00–12.15 on 1340/3780/7286 kc/s.
Arabic: 18.30–19.15 on 895/7285 kc/s.
To Europe: 895/7285 kc/s: 19.30 **Russian,** 20.00 **Turkish,** 20.15 **French or German: 20.45 English.**

ANN.: E.: "This is Tehran Calling". **F.:** "Ici Tehran". **Rus.:** "Govorit Tehran". **Turk:,** "Burasi Tehran". – **V.** by letter.

INT.-SIG.: Iranian melody on piano.



Foreign Service to Europe reported on 895/15105 kc/s.

REGIONAL STATIONS

R. Tabriz: 640 kc 468.8 m 5 kW – 6155 kc 48.74 m 7.5 kW: 02.25–18.30.
R. Rezaieh: 1000 kc 300 m 1kW – 8040 kc 37.31 m 0.5 kW: 12.25–16.30.
R. Isfahan: 1320 kc 227 m 1 kW: 06.25–17.30.
R. Zahedan: 1440 kc 208.3 m 1 kW: 13.55–17.00.
R. Sanandaj: 920 kc 326 m 1 kW – 6700 kc 44.74 m 0.4 kW: 02.57–17.30.
R. Kermanshah: 1090 kc 275.3 m 1 kW: 13.25–18.30.
R. Gorgan: 820 kc 360 m 1 kW: 13.24–17.30.
R. Shiraz: 1060 kc 285 m 1 kW: 12.55–18.00.
R. Rasht: 660 kc 440 m 1 kW: 13.55–17.30.
R. Kerman: 1190 kc 252 m 1 kW: 13.57–18.00.
R. Mashad: 1100 kc 272 m 1 kW: 13.27–17.30.
R. Ahwaz: 1390 kc 215 m 1 kW: 12.57–19.00.
F.PL.: R. Kermanshah, R. Ahwaz and R. Zahedan 100 kW before the end of 1961.

Department of Information and Press Service

Foreign correspondents, photographers, cameramen and news agency representatives visiting Iran will be given every assistance and guidance, during their stay in this country, by members of the above department. Early notification to this department of their date of arrival would enable us to prepare suitable itinerary including meetings with personalities and visits to historical and development sites.

ADDRESS:
Gen. Dept. of Pubs. and Broadcasting, Meiden Ark, TEHRAN, IRAN

TELEPHONE: *56718*

International Exchange Service

A special division has been established to conduct an international exchange programme of news, publications, documentary films, recorded music, photographs, broadcasting experts and radio technicians on reciprocal basis.

Interested Broadcasting Organizations throughout the world are invited to contact the General Adm. of Pubs. and Broadcasting, Maidan Ark, Tehran, Iran, for fuller details.

★ IRAQ ★

L.T.: GMT+ 3 h. – **Pr. L.:** Arabic, Kurdish, Turkuman – **Po.:** 7000.000 – **Rcvrs.:** 100.000 – **E.C.:** 200 V., A.C., 50 c/s.

BROADCASTING STATION OF THE REPUBLIC OF IRAQ *(Go.)*
ADDR.: Ministry of Guidance, Bagdad. – **L.P.:** Minister: Dr. Faisal Al-Samir.
STATIONS: 908 kc 330 m 200 kW, 1335 kc 225.0 m 20 kW.
3297 kc 91.00 m 16 kW, 6030 kc/s 49.75 m 100 kW, 7180 kc 49.75 m 100 kW.

HOME SERVICE in Arabic, Kurdish, Turkuman:
Arabic: 03.00–06.00, 10.00–21.00 on 908/7180 kc/s; 10.00–11.00, 19.30–20.30 on 6030 kc/s; 16.00–21.00 on 1335 kc/s; 17.00–21.00 on 3297 kc/s. – **Kurdish:** 03.00–05.00, 13.00–17.00 on 3297, 6030 kc/s – **Turkuman:** 11.00–13.00 on 3297, 6030 kc/s.
FOREIGN SERVICE: 17.00–19.30, 20.30–21.30 on 6030 kc/s.
English 21.00–21.30. **French** 19.00–19.30. **German** 20.30–21.00. **Persian** 17.30–18.30. **Turkish** 18.30–19.00. **Urdu** 17.00–17.30.
ANN.: "Huna Bagdad" (Here is Bagdad) – **INT.-SIG.:** Soft chirps of a mechanical nightingale – **V.** by QSL-card. – **PUB.:** Prgr. sched., Monthly.

★ ISRAEL ★

L.T.: GMT+2 h. – **Pr. L.:** Hebrew, Arabic – **Po.:** 2.100.000 – **Rcvrs.:** 450.000 – **E.C.:** 220/380 V., A.C., 50 c/s.

ISRAEL BROADCASTING SERVICE *(Go.)*
FI.: By state, license payments, adv. **AD.:** 5 min of prgrs. per h. – **ADDR.:** Kol Israel: Israel Broadc. Sce., Broadcasting House, Jerusalem. **Cable:** "Kol Israel". **Te.:** 24388 – **L.P.:** Acting Dir.: H. Givton. Dir. Prgr.: Dr. Y. Spiro. Dir. Transcription Sce.: K. Salomon. Dir. Tec.: M. Berman – Ministry of Posts.

STATIONS:

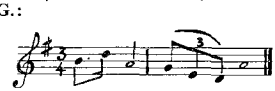
Medium Waves: kc/s	m	kW	Call	Prgr	kc/s	m	kW	Call	Prgr
575	521.7	50/10	4XB36	A	1169	256.4	1	4XB23	A
652.1	460	0.8	4XB47	B	1205	249	10	4XB35	A
710	422.5	1	4XB20	B	1277	234.9	1	4XB53	E
737	407.1	100/10	4XB34	D	1336.5	224.5	1	4XB42	E
1025	292.2	0.5	4XB48	B	1390	215.8	1	4XB43	E
Short Waves:									
2442	122.9	0.5	4XB51	E	7189	41.73	7.5/2.5	4XB49	D
					9009	33.30	50/7.5	4XB31	C

FM: (For radio links only between studios and transmitters).

mc/s	kc/s	Call	mc/s	kW	Call	Mc/s	kW	Call	mc/s	kW
71.5	0.04	4XB45	89.3	0.25	4XB32	93.3	0.25	4XB39	99.3	0.25
4XB55										
88.3	0.25	4XB37	90.3	0.25	4XB33	94.3	0.25	4XB52	99.7	0.04
4XB46										
88.8	0.25	4XB54	93.1	0.25	4XB38					

HOME SERVICES:
Main Prgr. in Hebrew (Prgr. A) on 575/1169/1205 kc/s: 04.00–06.00, 09.00–12.30, 14.30–21.00 – **N.:** 04.00, 05.00, 06.00, 11.30, 15.00, 17.00, 19.00, 21.00.
Commercials – English: 14.00–14.30.
Special Prgr. in English, Swedish for UN Emergency Forces: 14.30–15.00.
Prgr. B. in Hebrew, Yiddish, Ladino, French, English, Hungarian, Rumanian, Polish, Moroccan Arabic on 652.1/710/1025/7189 kc/s: 15.00–21.00.
Light prgr's with commercials: 15.00–16.30, 19.30–21.00.
Forces Prgr. E. in Hebrew on 1277/1336.5/1390/2442 kc: 16.00–20.30.
Arabic Prgr. D on 737/7189 kc: 04.30–05.15, 11.15–12.15, 15.30–21.15.
INT.-SIG.: Traditional Bible constellation played on oboe strings.

FOREIGN SERVICE on 9009 kc/s (Prgr. C)
To So. Africa: *15.15–15.45 Yiddish, 16.45–17.15 English.*
To Europe: 17.30 Rumanian, 17.45 Hungarian, 18.00 Moghrabi,18.15 Persian, 18.45 Ladino, 19.00 Yiddish, 19.30–20.00 **French,** 20.00 Hebrew, 20.15–20.45 **English.**
To W. Africa: 21.00–21.30 **English,** 21.30–22.00 **French.**
ANN.: Home Sce.: "Kol Israel Miyerushalayim" – **Foreign Sce.: E.:** "This is Kol Israel, the Voice of Israel, broadcasting from Jerusalem". – **INT.-SIG.:**



V. by QSL-card. – **F.PL.:** 2 tr. 100 kW, one m.w. and one s.w. – **PUB.:** "Radio" Kol Israel's, weekly.

★ JORDAN ★

L.T.: GMT+2 h. – **Pr. L.:** Arabic, English. – **Po.:** 1.600.000. – **Rcvrs.:** 153.281. – **E.C.:** 220 V., A.C., 50 c/s.

THE HASHEMITE JORDAN BROADCASTING SERVICE (Go.)

ADDR.: P.O. Box 909, Amman, Jordan. – **L.P.:** Dir. Gen.: H. E. Wasfi El-Tell. Ass. Dir. Adm.: A. Zawati. Asst. Dir. Eng.: A. Bayat. Ass. Dir. Prgr.: S. Abu Zeid. Chief News Sce.: A. Abu Alsha'ar.

STATIONS:	kc/s	m	kW		kc/s	m	kW
Amman	800	375.0	100	Amman	7155	41.92	100
Jerusalem	677	443.0	20	Amman	9530	31.48	100
Amman	6020	49.83	7.5				

HOME SERVICE:
Amman: Arabic: 03.30–06.15 on 800/7155 kc/s 06.15–08.15, 11.00–13.05 on 800/9530 kc/s; 14.00–22.00 on 800/7155 kc/s.
Jerusalem: English: 11.00–12.00, 15.00–17.00. **Arabic:** 12.00–15.00.
ANN.: E.: "This is Amman, The Broadcasting Service of the Hashemite Kingdom of Jordan. "– **V.** by letter. – **PUB.:** Prgr. sched. free on request.

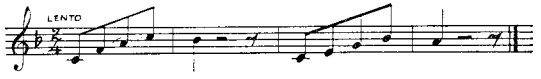
★ KUWAIT ★

L.T.: GMT+3 h. – **Pr.L.:** Arabic. – **Po.:** 250.000. – **Rcvrs.:** 75.000. – **E.C.:** 220/240 V., A.C., 50 c/s.

KUWAIT BROADCASTING SERVICE (Go.)

ADDR.: P.O. Box 397, Kuwait. **Cable:** Kuwait Broadcasting. **Te.:** 5011. – **L.P.:** Pres.: His Highness Shaikh Abdallah Al-Mubarak As-Sabah, Vice Ruler of Kuwait. Dir. Gen.: M. T. Ghossain. Dir. Prgr.: M. Abu Gharbieh. Editor: M. Al-Hut.

HOME SERVICE in Arabic: 02.30–07.00, 09.00–21.15.
1345 kc 223.2 m 10 kW – 4967.5 kc 60.25 m 10 kW – **N.:** 03.00, 04.00, 05.00, 10.45, 13.15, 17.00, 19.00, 21.00 .
ANN.: "Huna Dar Al-Iza'a Al-Kuwaitieh". – **INT.-SIG.:**



V. by special card. – **F.PL.:** 1961. One 100 kW m.w.-tr., one 50 kW sw.-tr.

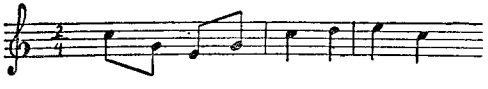
★ LEBANON ★

L.T.: GMT+2 h. – **Pr.L.:** Arabic, French, English. – **Po.:** 1.600.000. – **Rcvrs.:** 80.000. – **E.C.:** 110/190 V., A.C., 50 c/s.

LEBANESE BROADCASTING STATION (Go.)

ADDR.: Radio Liban, Ministére de l'Information, Beyrouth. **Cable:** "Radioliban". – **L.P.:** Dir. Gen.: Boutros Dib. Dir. of Broadc.: Hassan El Hassan. Dir. Tec.: J. Rouhayem.

HOME SERVICE:
836 kc/s 359 m 4 kW – 989 kc/s 303.3 m 10 kW – 8036 kc/s 37.34 m 2 kW – **Arabic** on 989/8036 kc/s: 04.30–07.00, 09.30–13.25, 14.00–21.00. **N.:** 05.00, 06.00, 11.00, 12.30, 15.00, 18.00, 20.15, 21.50. **French** (on 836 kc/s): D. 05.30–07.00, 11.30–12.30, 19.00–20.15. **English** (on 836 kc/s): D. 15.00–16.00.
ANN.: Arabic: "Houna Beyrouth, Dar al'Iza'a al Loubaniat". **F.:** "Ici Beyrouth, Station de Radiofiffusion Libanaise". **E.:** "This is the English programme of the Lebanese Broadcasting Station in Beyrut" – **INT.-SIG.:**



V. by QSL-card. – **F.PL.:** A m.w. & s.w. st. 100 kW each early 1961. – **PUB.:** Prgr. schedule in Arabic free on request.

★ SAUDI ARABIA ★

L.T.: GMT+3 h. – **Pr. L.:** Arabic, English. – **Po.:** 6.000.000. – **Rcvrs.:** 21.000. – **E.C.:** 110/220 V., A.C., 60 c/s.

SAUDI ARABIA BROADCASTING (Go.)

ADDR.: General Directorate of Press and Broadcasting, Jeddah. **Cable:** Broadcasting. – **L.P.:** Dir. Gen.: H. E. Sheihk Ibrahim Eshuka. Dir. Prgr.: A. Chazawi. Dir. Tec.: A. Andreou.

STATIONS: Jeddah.
723 kc/s 414 m 50 kW – 3990 kc/s 75.19 m 3 kW
6170 – 48.62 – 3 – – 11950 – 25.10 – 10 –

HOME SERVICE in Arabic: Approx. 05.00–06.20, 11.00–12.45, 17.00–17.35, 18.00–20.35.
H. of tr. depends on sunset and is adjusted every day.

FOREIGN SERVICE: Indonesian 13.00–14.00 (N. 13.45) – **Urdu** 14.00–15.00 (N. 14.15).
ANN.: Home Service: "El Izaa el Arabia el Seoudia". **Foreign Service:** "Disini Radio Saudi "(Indonesian). "Mecca Mukarama Kay Awaz Saudi Arab Radio" (Urdu).
INT.-SIG.: Call to prayer (az'an) played on flute. – **V.** by letter. – **F.PL. Jeddah:** 2 s.w. tr.s 50 kW, 1 s.w. tr. 100 kW, 1 m.w. tr. 50 kW 1962. **Riyadh:** 50 kW m.w. – **PUB.:** Saudi Broadc. Magazine.

★ SYRIA (United Arab. Rep.) ★

L.T.: GMT+2 h. **L. Pr.:** French, Arabic. – **Po.:** 4.200.000. – **Rcvrs.:** 550.000. – **E.C.:** 110 V., A.C., 50/60 c/s.

DAMASCUS U. A. R. BROADC. SERVICE (Go.)

ADDR.: Rue de la Victoire, Damascus. – **L.P.:** Dir. Gen.: Y. El-Shahabi.

STATIONS:

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
484	513.8	5	863	347.6	10	11750	25.53	0.3
602	498.2	2	1313	228.5	10	15165	19.78	20
665	451.2	50	5705	52.60	20	17865	16.80	20
719	417.2	2	6165	48.66	20	21560	13.91	20
746	402.0	20	7398	48.05	7.5			

HOME SERVICE in Arabic, French & English:
Arabic: 04.00–08.00, 11.30–14.00, 15.00–23.00 on 584/665/746/1313/5705/6165/7398/11750 kc/s. – **Local Prgr.:** 08.00–11.30 on 602/719 kc/s, 14.00–15.00 on 584/602/719 kc/s. – **2nd Prgr. (from Cairo):** 19.00–22.00 863 kc/s.
French & English: 05.05–07.05 & 16.00–19.00 on 602/719/863 kc/s.

FOREIGN SERVICE:
11.00–11.30 **Turkish** on 665/746/5705 kc/s (to Turkey).
14.00–15.00 **Hebrew** on 665 kc/s (to Israel).
19.30–20.30 **French & English** on 15165 kc/s (to Europe).
21.00–22.00 **Arabic** on 15165 kc/s (to No. Africa).
00.00–02.00 **Arabic & Spanish** on 15165/17865 kc/s (to So. America).

ANN.: Arabic: "Houna Dimashk". **E.:** "This is Damascus Calling". **F.:** "Ici Damas". **Sp.:** "Aqui Damasco". **Hebrew:** "Kol Damasseh". – **V.** by QSL-card and letter.

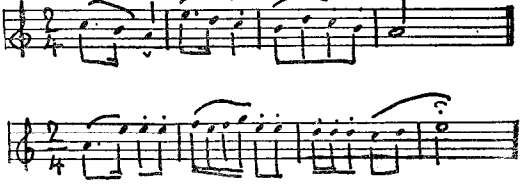
★ TURKEY ★

L.T.: GMT+2 h. – **Pr. L.:** Turkish. – **Po.:** 25.500.000. – **Rcvrs.:** 1.167.000. – **E.C.:** 220 V., Z.C., 50 c/s.

RADIO ANKARA (Go.)

ADDR.: Office: Turkish Press, Broadcasting and Tourist Dept. Ankara. – **Cable:** Basin-Yayin, Ankara.

HOME SERVICE:
R. Ankara TAR 182 kc/s 1648 m 120 kW: 04.20–14.00, 14.58–22.05
R. Istanbul TAW 701 – 428 – 150 – : 05.20–07.00, 10.27–13.00, 14.57–22.05
R. Izmir TAZ 6600 – 45.45 – 0.4 – : 13.58–21.15
FM: Istanbul 92 mc/s – 96 mc/s – 0.25 kW.
ANN.: "Burasi Ankara" (This is Ankara), or "Burasi Istanbul Radyosu" (This is Radio Istanbul).
INT.-SIG.: Ankara.



FOREIGN SERVICE:

Ankara I 20 kW			Ankara II 100 kW					
	kc/s	m		kc/s	m		kc/s	m
TAN	6000	50.00	*TAL4	7140	42.02	TAU	15160	19.79
TAM	7240	41.44	TAS	7285	41.18	*TAL3	15220	19.71
TAP	9465	31.70	TAT	9515	31.53	TAV	17820	16.84
TAK	11760	25.51	*TAO	11880	25.25	*TAX	21660	13.85
TAQ	15195	19.74						
TAD	17720	16.93	* inactive.					

DAILY PRGR.:
I = Middle East; II = Europe; III = So. East Asia; IV = No. America; V = So. Am.; VI = Korea; VII = So. Asia.

Time	Sce.	m.b.	Time	Sce.	m.b.
Arabic:			**Persian**		
05.00–05.45	I	31	14.00–14.30	I	16
16.30–17.00	I	31	16.00–16.30	I	31
18.15–18.30	I	31	**Polish**		
Bulgarian			19.15–19.30	II	31
18.00–18.15	II	41–31	**Pushtu**		
English			13.30–14.00	I	16
15.30–16.00	II	16	**Rumanian**		
18.15–18.30	II	41	17.45–18.00	II	41–31
21.00–21.15	II	41–31	**Serbo-Croat**		
23.15–24.00	IV	31	18.30–19.00	II	41–31
French			**Spanish**		
20.15–20.45	II	41	22.30–23.00	II/V	31
German			**Turkish**		
19.15–19.45	II	41	11.00–11.10	VI	31
Greek			11.00–11.15	II	19
17.15–17.45	II	41–31	17.00–17.15	II	41–31
Hungarian			20.45–21.00	II	41–31
19.00–19.15	II	41–31	**Urdu**		
Italian			15.00–15.30	VII	16
19.30–20.00	II	31			

ANN.: "Burasi Türkiye Radyoyayin Postalari Kisa dalga Ankara Radyosu" (This is the Turkish Broadc. Sces. S.W. Ankara R.).
INT.-SIG.: An old Turkish dance-tune "Sari Zeybek".

V. by QSL-card. – PUB.: Weekly prgr. sched. for R. Ankara, R. Istanbul, R. Izmir.

TECHNICAL UNIVERSITY OF ISTANBUL (Go.)
ADDR.: Teknik Universite, Elektrik Fakültesi. Yüksek Frekans Teknigi Kürsüsü, Istanbul. Te.: 482250.
L.P.: Dir. Gen.: Prof. Dr. M. Santur. Dir. Tec.: Prof. Dr. A. Ataman.
HOME SERVICE: I.T.U. = Istanbul Teknik Universitesi.
6299 kc/s 47.62 m 1 kW: 18.15–20.00 (exc. Sat.)
7018 – 42.74 – 0.5 – : 18.15–20.00 (exc. Sat.)
FM: 99.5 mc/s 0.25 kW: 18.15–20.00 (exc. Sat.).
Frequencies are shifted slightly if interference occurs.
PRGR.: National (Turkish) and Classical music, Turkish music: Sun., Tues., Thurs. 18.15–18.45.
ANN.: Turkish: "Burasi Istanbul Teknik Universitesi Radyosu". E.: "Here is the R. Station of the Technical University of Istanbul".
INT.-SIG.: "Turkish March" by Mozart. – V. by letter. R. p.

★ YEMEN ★

L.T.: GMT+3 h. – Pr. L.: Arabic. Po.: 5.000.000. E.C.: 127/220 V., A.C., 50 c/s.

RADIO SANAAH (Go.) 5985 kc/s 50.13 m 25 kW: 16.45–18.30. – ANN.: "Huna Sana, dar idha'at al-Mamlakah al-Mutawakkiliyah al-Yamaniyah li ad-Duwal al-Arabiyah al-Muttahida". (This is Sana, broadcasting station of the Mutawakkilite Yemeni Kingdom of the United Arab States).

★ BORNEO, NORTH (British) ★

L.T.: GMT+8 h. – Pr. L.: English, Chinese, Malay, Dusun. – Po.: 425.000. – Rcvrs.: 13.425. – E.C.: 230/400 V., A.C., 50 c/s.

NORTH BORNEO BROADCASTING SERVICE (Go.)
ADDR.: Radio Sabah, Information Office, Jesselton. Cable: Infof. For technical matters: The Directors of Posts and Telegraphs. – L.P.: Dir. Broadc. & Inf.: R. J. Brooks. Dir. Tec.: I. de la Harpe.
HOME SERVICE: m.w.: 0.5 kW; s.w.: 5 kW.
VQA 930 kc/s 32.30 m – VQA52 5980 kc/s 50.17 m
HOME SCE.: D. 04.00 (Sat. 03.00)–06.00, 09.00–14.00. Also 14.15–16.15(W) and 15.30–17.30 (Public Holidays).
ENGLISH: Sun.-Fri.: 04.30–05.00. Sat.: 03.00–04.00, 04.30–05.00. D.: 11.00–11.15, 12.30–14.00. – MALAY: D.: 04.00–04.30, 11.15–12.30. – CHINESE: D.: 05.30–06.00, 09.00–10.00. – DUSUN: D.: 05.00–05.30, 10.00–11.00.
ANN.: "This is R. Sabah broadcasting from Jesselton, North Borneo on 5980 kc/s in the 50 meter band shortwave and 323 meter in the m.w. band" – INT.-SIG.: Open and close with the sound of No. Borneo native gongs. – V. by QSL-card or letter.

★ BRUNEI (British Protectet State) ★

L.T.: GMT+8 h. – Pr. L.: Malay, English, Chinese. – Po.: 75.000. – Rcvrs.: 7.500. – E.C.: 230 V., A.C., 50 c/s.

BRUNEI BROADCASTING SERVICE (Go.)
ADDR.: Brunei Town, State of Brunei, Borneo. Cable: "Broadcasting". Te.: 345 PBX – L.P.: Acting Head of Broadc.: M. I. Shah. Chief Eng.: A. T. Dunk B. Sc., M.B.I.R.E.
MAIN SCE.: 1240 kc/s 242 m 20 kW: 01.00–04.30 (Fri., Sun.), 04.30–05.30 (Fri. & Sun. 06.00), D. 08.30–14.30.
Malay: D. 08.30–10.00 & 11.00–13.00, 01.00–02.30 (Fri., Sun.), 04.30–05.30 (Fri., Sun. 06.00). – N.: 02.15*, 04.00 (exc. Fri.), 04.30 (Fri. only), 09.30*, 12.30.
English: D. 13.00–14.30, 02.30–03.30 (Fri. & Sun.). – N.: D. 13.30, 03.15* (Fri. & Sun.).
Chinese: D.: 10.00–11.00, 03.30–04.30 (Fri. & Sun.). – N.: D. 10.45, 04.00* (Fri & Sun.). *) Headlines.
Rel.: Prgr.s of the Muslim Faith Fri., rel. holidays.
REGIONAL SERVICE: *) extensions Fri., Sun.
Kuala Belait 1100 kc/s 272 m 1.2 kW: 11.00–14.30*)
Brunei Town 970 – 309 – 1.2 – : carries Main Sce.
ANN.: E.: "This is Radio Brunei" – Malay: "Inilah Radio Brunei" – INT.-SIG.: Gongs of National folklore. – V. by letter. – F.PL. Extension of sce., sw-tr., school broadcasts.

★ BURMA ★

L.T.: GMT+6½ h. – Pr. L.: English, Burmese, Hindustani. – Po.: 19.000.000. – Rcvrs.: 100.000. – E.C.: 220 V., A.C., 50 c/s.

BURMA BROADCASTING SERVICE (Go.)
ADDR.: Prome Rd., Kamayut P.O., Rangoon. Cable: "Burbrocast". Te.: 31355. – L.P.: Dir. Gen.: U Khin Zaw, BA. FLA. Dir. Adm.: U Pe Thaw, BA, BL. Dir. Tec.: U Win Mg. M.I.R.E.

Call	kc/s	m	kW	h. of tr.
–	955	314.0	50	00.00–17.00
XZK2	4795	62.54	50	00.00–04.00, 10.00–17.00
XZK3	6035	49.71	50	00.00–10.00
XZK4	7125	42.11	50	00.00–04.00, 10.00–17.00
XZK5	9540	31.45	50	05.00–10.00

FM: 100/102/104/106 mc/s – 0.25 kW.
Burmese: 01.00–02.00, 05.30–07.00, 11.00–14.15. – N.: 01.05, 06.30 (exc. Mo.), D. 13.15. – Wrp.: 13.28. – Folklore Music: Sun., Tues., Thurs. 13.30.
English: 02.00–02.15 & 07.00–07.30 (D. exc. Mo.), 14.15–15.20. N.: 02.00 & 07.00 (D. exc. Mo.), 15.00. – Hindustani: 02.15–02.30 (D. exc. Mo.). – N.: 02.22.
ANN.: E.: "This is the Burma Broadcasting Service". Burmese: "Myanma Athan Hma Athan Hlwint Nay Barthe" – INT.-SIG: Eric Coates' March: "Calling all workers". – V. by QSL-card. R. p.

★ CAMBODIA ★

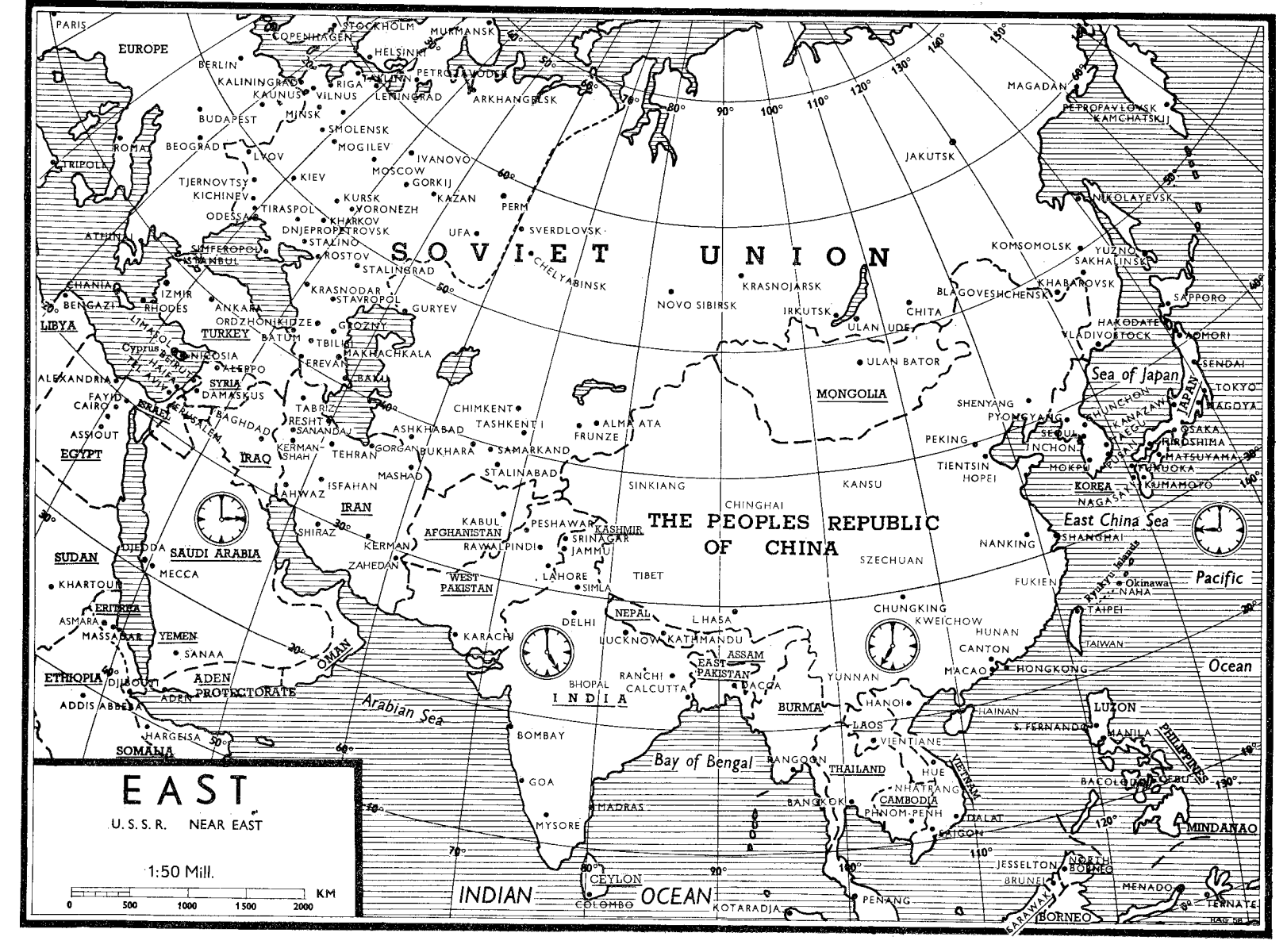
L.T.: GMT+7 h. – Pr. L.: French, Cambodian. – Po.: 4.500.000. – Rcvrs.: 8000. – E.C.: 220 V., A.C., 50 c/s.

RADIO CAMBODGE (Go.)
ADDR.: No. 28 Av. Preah Moha Ksatéyany Kassamak, Phnom-Penh. L.P.: Dir. Tec.: C. Cheum.
HOMR SERVICE in Cambodian:
1410 kc/s 213.0 m 10 kW – 6090 kc/s 49.26 m 10 kW
4907 – 61.13 – 10 – – 7183 – 41.76 – 10 –
22.30–23.30, 23.45–00.30, 01.15–01.30, 04.15–05.30, 05.45–06.15, 10.00–13.00 on 1410/6090/7183 kc/s.
FOREIGN SERVICE:
French: 23.30–23.45, 05.30–05.45 on 1410/6090/7183 kc/s, 14.00–15.00 on 1410/4907/6090/7183 kc/s – Laotian: 13.00–13.15 on 6090/7183 kc/s – English: 13.15–13.30 on 6090/7183 kc/s – Thai: 13.30–13.45 on 6090/7183 kc/s – Vietnamese: 13.45–14.00 on 6090/7183 kc/s – Chinese: 00.30–01.15 on 1410/6090 7183 kc/s (00.30 Mandarin, 00.45 Cantonese, 01.00 Swatow).
ANN.: "Ici Phnom-Penh, La Voix du Cambodge, Station de Radio-diffusion Nationale Khmère" – F.PL.: One 15 sw.-tr.; one 50 kW sw.-tr.; one 20 kW mw.-tr.

★ CEYLON ★

L.T.: GMT+5½ h. – Pr. L.: English, Sinhalese, Tamil. – Po.: 9.000.000. – Rcvrs.: 295.728. – E.C.: 220 V., A.C., 50 c/s.

RADIO CEYLON (Go., Comm.)
FI.: by state, licenses, adv. – ADDR.: Dept. of Broadcasting, P.O. Box 574, Colombo 7. Cable: "Radceylon". Te.: 91234. – L.P.: Dir. Gen.: T. E. Guneratne. Chief Engineer: N. S. Wickremasinghe. Dir. Nat. Sce.: D. T. L. Guruge (acting). Dir. Comm. Sce.: C. R. Dodd. Adm. Assistant: D. P. Wiratunge. Editor N. & Pub.: E. K. Perera. Listeners Research Officer: P. W. S. Perera.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HELSINKI
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BERLIN
KALININGRAD
KAUNUS
VILNUS
RIGA
TALLINN
LENINGRAD
PETROZAVODSK
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MOGILEV
LVOV
IVANOVO
MOSCOW
GORKIJ
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PERM
TJERNOVTSY
KICHINEV
KIEV
TIRASPOL
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ROSTOV
STALINGRAD
CHELYABINSK
KRASNODAR
STAVROPOL
GURYEV
KRASNOJARSK
NOVO SIBIRSK
IRKUTSK
ULAN UDE
CHITA
JAKUTSK
MAGADAN
PETROPAVLOVSK KAMCHATSKIJ
NIKOLAYEVSK
KOMSOMOLSK
YUZNO SAKHALINSK
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BLAGOVESHCHENSK
SAPPORO
HAKODATE
VLADIVOSTOCK
AOMORI
SENDAI
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NAGOYA
OSAKA
HIROSHIMA
MATSUYAMA
FUKUOKA
KUMAMOTO
KOREA
NAGASAKI
Sea of Japan
East China Sea
Pacific Ocean
Okinawa
NAHA
TAIPEI
TAIWAN
HONGKONG
MACAO
CANTON
HUNAN
FUKIEN
SHANGHAI
NANKING
SZECHUAN
CHUNGKING
KWEICHOW
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PHILIPPINES
MINDANAO
BACOLOD
CEBU
S. FERNANDO
JESSELTON
NORTH BORNEO
BRUNEI
MENADO
TERNATE
BORNEO
SARAWAK
KOTARADJA
PENANG
COLOMBO
CEYLON
INDIAN OCEAN
Arabian Sea
Bay of Bengal
BOMBAY
GOA
MADRAS
MYSORE
BANGKOK
THAILAND
BURMA
RANGOON
LAOS
VIENTIANE
HANOI
HUE
NHATRANG
CAMBODIA
PHNOM-PENH
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SAIGON
VIETNAM
CALCUTTA
BHOPAL
RANCHI
DACCA
EAST PAKISTAN
ASSAM
NEPAL
LHASA
KATHMANDU
LUCKNOW
DELHI
KARACHI
WEST PAKISTAN
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TIBET
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SRINAGAR
KASHMIR
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PESHAWAR
KABUL
AFGHANISTAN
IRAN
SHIRAZ
KERMAN
ISFAHAN
MASHAD
TEHRAN
TABRIZ
RESHT
SANANDAJ
KERMAN-SHAH
ZAHEDAN
AHWAZ
IRAQ
BAGHDAD
SYRIA
DAMASKUS
ALEPPO
TURKEY
BATUM
TBILISI
GROZNY
MAKHACHKALA
EREVAN
BAKU
ORDZHONIKIDZE
ANKARA
IZMIR
RHODES
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LIBYA
TRIPOLI
ATHINA
SIMFEROPOL
ISTANBUL
Cyprus
NIKOSIA
ALEXANDRIA
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East China Sea
Sea of Japan
KOREA
NAGASAKI
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SARAWAK
KOTARADJA
PENANG
COLOMBO
CEYLON
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Bay of Bengal
BOMBAY
GOA
MADRAS
MYSORE
BANGKOK
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ATHINA
SIMFEROPOL
ISTANBUL
Cyprus
NIKOSIA
ALEXANDRIA
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FAYID
ASSIOUT
EGYPT
SUEZ
JERUSALEM
HAIFA
BEIRUT
TEL AVIV
SUDAN
KHARTOUM
ERITREA
ASMARA
MASSAWA
ETHIOPIA
DJIBOUTI
ADDIS ABEBA
HARGEISA
SOMALIA
DJEDDA
SAUDI ARABIA
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HAG 58

STATIONS:

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
640	469.0	0.25	5020	59.76	10	9520	31.51	10/100
700	428.0	15	6004	49.95	7.5	11770	25.49	35
870	344.8	0.25	6075	49.38	7.5	11835	25.35	35
920	326.0	1	7110	42.19	10	11875	25.26	35
4870	61.60	10	7190	41.72	10	15120	19.84	35
4900	61.22	10	7235	41.47	10	15265	19.65	35
4965	60.42	10	7300	41.09	10	17820	16.84	35

NATIONAL SERVICE

ENGLISH: D.: 11.30–17.30 on 920/5020 kc/s. Sun. 04.30–07.30 on 920/7235 kc/s. **N., Comm., Wrp.:** W. 13.15, 15.45. – **Rel.** Tues. 15.00, Thurs. 14.30, Sun. 04.30, Sun. 13.30 (Christian Half-Hour). – **L.L.:** Wed. 13.45 "Listen & Teach" (BBC).
SINHALESE: On 700/7110 kc/s: W.: 01.00–03.00, 06.30–08.00. Sun. 01.00–08.00 – On 700/4900 kc/s: D. 11.00–17.00. N.: 01.30, 07.15, 12.30, 15.30. **Folklore Music:** W. 01.45, Mo. 13.00, Wed., Fri. 13.15, Sat. 13.45, Sun. 03.30.
TAMIL: On 870/7300 kc/s: W. 01.15–03.00, 06.30–08.00. Sun. 01.15–08.30. On 870/4965 kc/s: 11.30–17.00. **N.:** 01.30, 07.15, 12.30, 15.30. **ANN.: E.:** "This is the National Sce. of R. Ceylon" – **Tamil:** "Illankai Vanalai-Thesiya Oliparappu" – **Sinhalese:** "Me Lanka Guwan Viduliya Suwadeshiya Pracharayai" – **INT.-SIG.:** All three services open with "National Drums" ("Magul Bera") and close with National Anthem ("Namo Namo Matha").

COMMERCIAL SERVICE

TO CEYLON in English, Sinhalese, Tamil:
English: On 920/7235 kc/s: D. 01.30–04.30. Sat. & Sun. 07.30–11.30. On 640/6075 kc/s: Mo.-Fri. 07.30–09.30. On 640/4870 kc/s: D. 12.30–17.30. N. (BBC): D.: 02.00, 13.00. D. 07.45 (local) – **Sinhalese:** On 640/6004 kc/s: D.: 01.30–04.30, 05.30–07.30. Sat. & Sun. 07.30–10.30. On 920/7235 kc/s: Mo.-Fri. 07.30–11.30. **N.:** D. 01.45, 07.15. – **Folklore Music:** Sun. 03.15, Wed. 03.00. – **Tamil:** On 640/6004 kc/s: D. 04.30–05.30. On 640/4870 kc/s: 09.30 (Sat. & Sun. 10.30)–12.30.
TO ASIA in English, Hindi, Tamil:
English: On 15265 kc/s: D. 01.30–03.30. On 6004/9520 kc/s: D. 12.45–16.30. N. (BBC): D.: 02.00, 13.00. – **Vernaculars:** On 9520/15120 kc/s: D. 01.30–04.30 (Sun. 07.30). On 7190 kc/s: 11.00 (Sat., Sun. 10.30)–17.30.
TO SO. EA. ASIA in English: On 17820 kc/s: D. 09.15–10.45. **Home N.** (from Ceylon): D. 09.30.
ANN.: E.: "This is the Commercial Service of R. Ceylon" – **Sinhalese:** "Me Lanka Velanda Guwan Viduli Sewayai" – **Tamil:** "Illankai Vanali Varthaga, Olipparappu" – **Hindi:** "Yeh R. Ceylon Ka Vyapaar Vibhag Hai" – **INT.-SIG.:** Opens & closes with the theme "Strike up the Band". – **V.** by letter or QSL-card. **Re.:** in English to be addressed to Listeners Research Officer. – **PUB.:** R. Times (fortnightly). – **F.PL.:** A reg.st. at Senkadagala on 660 kc/s.

VOICE OF AMERICA RADIO STATION IN CEYLON

ADDR.: Voice of America, Washington 25, D. C., U.S.A.

STATIONS: Short Wave: Colombo 35 kW: 01.00–03.30, 12.00–18.00.

7110 kc/s	42.19 m	11835 kc/s	25.35 m	15210 kc/s	19.72 m
7275 –	41.24 –	11875 –	25.26 –	17800 –	16.85 –
01.00–01.30	English		gali	16.00–16.30	English
02.00–02.30	–		(11875,		Urdu
03.00–03.30	–		15385)	16.30–18.00	English
12.00–13.30	–		Tamil	18.00–18.30	Eng. to
13.30–14.00	W.Ben-		(7110)*		Africa
	gali	14.30–15.00	Malaya-		(15210)
13.30–14.00	English		lam	18.30–19.00	Hindi
			(7110)*		to Ea.
14.00–15.30	English	15.00–15.30	English		(15210,
14.30–15.00	E. Ben-	15.30–16.00	Hindi		17800)

*) Sun./Mo./Wed./Fri. **) Tues./Thurs./Sat.
ANN.: "Thi is Colombo broadcasting the Voice of America".
INT.-SIG.: Chair of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. V. by QSL-card.

★ CHINA ★

THE PEOPLE'S REPUBLIC OF CHINA

L.T.: GMT+8 h. – **P.L.:** Chinese – **Po.:** 650.000.000. – **Rcvrs.:** 4.500.000
Loudspeakers for line (wire): 6.200.000.

BROADCASTING ADMINISTRATION (Go.)
ADDR.: Broadcasting Administration, Outside Fu Hsin Men, Peking. – **L.P.:** Dir. Gen.: Mei I.

HOME SERVICE

Central People's Broadcasting Station

Medium Waves: 20/150/300 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
560	535.7	700	428.6	890	337.1	1090	275.2	1350	214.8
570	526.3	710	422.5	910	329.7	1150	260.9	1430	209.8
600	500.0	720	416.7	980	306.1	1160	258.6	1490	201.1
610	491.8	790	379.7	1000	300.0	1210	247.8	1500	200.0
640	468.8	820	365.9	1020	294.1	1230	243.9	1510	198.7

Short Waves: 15/120 kW

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
3915	76.63	6890	43.54	9390	31.95	11630	25.79	15610	19.22
3960	75.76	6995	42.89	9570	31.35	11660	25.73	15710	19.10
3985	75.28	7065	42.46	9670	31.02	11675	25.70	15880	18.89
5030	59.64	7170	41.84	9717	30.88	11690	25.66	17450	17.19
5125	58.54	7240	41.44	9735	30.82	11860	25.30	17490	17.15
5220	57.47	7265	41.29	9765	30.72	11910	25.19	17533	17.11
5860	51.20	7370	40.71	9860	30.43	11925	25.16	17605	17.04
5880	51.02	7480	40.08	9920	30.24	11935	25.14	17635	17.01
5915	50.72	7500	40.00	9945	30.17	15030	19.96	17780	16.87
6065	49.46	7620	39.37	9972	30.08	15175	19.77	17900	16.76
6100	49.18	7770	38.61	10260	29.24	15240	19.69		
6212	48.29	8425	35.46	11100	27.03	15290	19.62		
6225	48.19	8660	34.64	11290	26.57	15313	19.59		
6595	45.48	9020	33.26	11330	26.47	15445	19.43		
6790	44.18	9064	33.09	11455	26.19	15480	19.38		
6810	44.05	9170	32.72	11515	26.05	15550	19.29		
6825	43.96	9340	32.12	11600	25.86	15590	19.24		

FIRST PRGR.: On 560, 570, 640, 700, 890, 980, 1020, 1490 kc/s and in 76–49–41–31–25–19–16 m.b. – **Winter and Spring** (1960/61) 21.20–17.00 **(Nov.-Apr.): N.:** 21.30–21.45, 22.15–22.45, 00.00–00.05, 01.00–01.15, 02.30–02.35, 04.10–04.25, 04.30–04.45, 07.00–07.05, 10.00–10.15, 11.45–12.00, 12.30–13.00, 14.00–14.15, 15.00–15.15, 16.00–16.15. – **Summer and Autumn** (1961) 20.30–17.00 **(May-Oct.) N.:** 21.00–21.15, 22.05–22.35, 23.50–23.55, 01.00–01.15, 02.30–02.35, 04.10–04.25, 04.45–05.00, 05.00–05.15, 07.30–07.45, 10.00–10.15, 11.45–12.00, 12.30–13.00, 14.00–14.15, 15.00–15.15, 16.00–16.15.

SECOND PRGR.: On 600, 610, 710, 720 kc/s and in 76–49–41–31–25–19 m.b. – **Winter and Spring** (1960/61) 21.40–03.00, 03.50–18.30 **(Nov.-Apr.): N.:** 22.00–22.15, 23.00–23.30, 00.30–03.00 (dictation news, except Sunday), 04.45–05.00, 06.00–06.15, 08.00–08.15, 08.30–08.45, 09.30–09.45, 11.50–12.05, 15.00–18.30 (dictation news). – **Summer and Autumn** (1961): 21.25–03.00, 03.50–18.30 **(May-Oct.): N.:** 21.45–22.00, 23.00–23.30, 00.30–03.00 (dictation news, exc. Sun.) 04.30–04.45, 06.00–06.05, 08.00–08.15, 09.00–09.05, 11.00–11.15, 15.00–18.30 (dictation news).
THIRD PRGR.: On 1000, 1150, 1160 kc/s and in 76–49–31–25–19 m.b.: 00.25–06.00, 09.25–16.00: **N.:** 03.00–03.15, 12.55–13.00.
FOURTH PRGR.: (to the capital):
820 kc/s 21.55–06.00, 06.55–16.00. – 1210 kc/s: 05.55–14.30 – 1350 kc/s: 00.00–03.30, 05.30–10.20, 11.00–14.30 – 1500 kc/s: 22.00–03.30, 05.30–10.00, 11.00–14.30.
TO TAIWAN:
20.55–05.20 on 790, 910, 1090, 1430 kc/s and in 41, 31, 25, 19, 16 m.b. 09.25–17.30 on 1090, 1230, 1430, 1510 kc/s and in 41, 31, 25, 19, 16 m.b.
N.: 21.00, 03.25, 05.10, 09.30, 15.30 (Standard Chinese) 04.00, 10.20, 16.10 (Amoy).
TO NATIONAL MINORITIES: Korean: 22.00–22.30, 10.30–11.00 in 1020 kc/s. – **Tibetan:** 22.00–22.30, 13.00–13.30 in 16, 19, 25 m.b. – **Mongolian:** 04.30–05.00 in 25, 31, 41 m.b. 11.20–11.50 in 31, 41, 49 m.b. – **Chuang:** 04.00–04.30, 12.00–12.30 in 16, 19, 25 m.b. – **Uighur:** 07.00–07.30 in 16, 19, 25 m.b. 14.00–14.30 in 16, 19, 25 m.b.
Local Stations:

	kc/s		kc/s
Shanghai	850, 990	Silingol	1310, 4525
	1110, 1210,	Chirim	1350
	1290, 1500	Chaowut	1490
Hopei	1280	Liaoning	218, 1240
Tientsin	790, 870,	Shenyang	690, 780
	920, 1070		1440
	1390, 1440	Penhsi	1310, 1050
	1520	Fushun	850, 1520
Paoting	1480	Fushin	1480
Hantan	1370	Yingkow	1110
Chinhuangtao	1050, 1370	Chingchow	1410, 910
Tangshan	890, 1450	Lushun-Dalien	690, 830
Changchiakow	780	Antung	890, 1400
Inner-Mongolia B		Anshan	950
	1070, 1380	Chaoyuan	1330
	3900	Kirin (prov.)	580
Paotow	670, 1390	Changchun	1330, 1450
Bayinnor	1270, 4000	Kirin	
Huhehot	1050	(Municipal)	1360, 1600
Ikhechow	1360	Baicheng	1270
Ulanchap	1540		

The Broadcasting Centre, Peking

Listen to

RADIO PEKING

China

	kc/s		kc/s
Yenpien	920	Shuangyashan	1110
Liaoyuan	1290	Chisi	1530
Shihping	1130	Shensi	900, 6176
Tunghua	1340	Sian	690, 1370
Heilungkiang	250, 620	Paochi	1310
Nanking	820	Hanchung	1350
Huaiyin	1530	Tungchuan	1290
Yangchow	1370	Kansu	860, 7324
Nantung	1480	Lanchow	1400
Soochow	1330	Tienshui	1270
Wusih	1400	Kannan	1330
Hsuchow	1450	Changyeh	1490
Hsinhailien	1350	Pingliang	1550
Changchow	1520	Ninghsia	1130
Anhwei	940	Chinghai	1010, 1250, 6200, 6500, 9500
Hofei	1270		
Anking	1440	Sining	1450
Wuhu	1490	Hainan	750
Huainan	1570	Sinkiang	910, 740, 4220
Chekiang	800, 2475		4500, 4770, 6280
Hangchow	1350		7050, 7385, 9470
Ningpo	890		10245
Wenchow	1450	Shantung	1320, 2350
Chowshan	1270	Tsinan	750, 910
Fukien	880, 1470	Yentai	1450
	4980	Tsingtao	850, 1400
Foochow	1330, 1390	Kiangsu	680
Amoy	1110	Shashih	1450
Changchow	1270	Hunan	1260, 4990
Honan	1420	Changsha	1530
Kaifeng	930	Hengyang	1350
Hsinhsiang	1050	Chuchow	1400
Tsiaotso	1560	Chuchow	1400
Nanyang	1360	Hsiangtan	1500
Hsinyang	920	Shaoyang	1390
Pingtingshan	1590	Changteh	1570
Hupei	770	Kiangsi	840
Wuhan	1110, 1370	Nanchang	1310, 1600
	1590	Chingtehchen	1400
Hwangshih	1480	Kanchow	1270
Chengteh	850	Kiukiang	1560
Shichiachuang	1050	Kwangtung	1060, 1340
Shansi	1100	Canton	660, 790, 1400
Taiyuan	1530	Hainan	950
Tatung	1370	Swatow	970
Changchih	1490	Kwangsi	1120, 5010
Yuanchuan	1590	Nanning	1370
		Liuchow	1330
Inner-		Wuchow	1410
Mongolia A	960, 1460	Kweilin	1450
	4068, 6840	Szechuan	1220, 7225
	6974, 9365	Chengtu	750
	9492, 11040	Chungking	1080, 1310
Harbin	660, 970	Tsukung	1490
	1570	Kweichow	1030, 3260
Hekang	1410	Tuyun	1490
Ichun	910	Tsunyi	1370
Chiamuszu	610, 1590	Yunnan	810, 6925, 9990
Mutankiang	750	Kunming	142
Tsitsihar	740, 850	Tibet	9490

FOREIGN SERVICE:

Medium Waves: 1020 kc/s 294.1 m, 1190 kc/s 252 m, 1300 kc/s 231 m.
Short Waves: 120/240 kW:

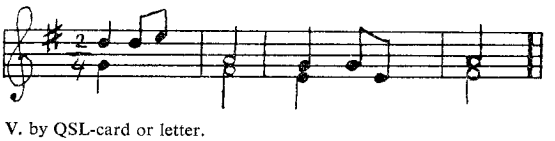
kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
4620	64.94	7095	42.28	9570	31.35	11860	25.30	15270	19.65
5935	50.55	7115	42.16	9585	31.30	11885	25.24	15290	19.62
5950	50.42	7125	42.11	9590	31.28	11910	25.19	15345	19.55
5985	50.13	7135	42.05	9600	31.25	11945	25.12	15417	19.46
5990	50.08	7150	41.96	9650	31.09	11955	25.09	15430	19.44
6000	50.00	7160	41.90	9665	31.04	11965	25.07	15500	19.35
6025	49.79	7200	41.67	9690	30.96	11975	25.05	15520	19.33
6035	49.71	7210	41.61	9755	30.76	11980	25.04	17675	16.97
6065	49.46	7230	41.49	9775	30.69	12010	24.98	17680	16.97
6120	49.02	7265	41.29	9785	30.66	12055	24.89	17720	16.93
6125	48.98	7295	41.12	9800	30.62	15030	19.96	17730	16.92
6135	48.90	7335	40.90	9860	30.43	15060	19.92	17745	16.91
6145	48.82	7350	40.82	11650	25.75	15095	19.87	17765	16.89
6155	48.74	9460	31.72	11675	25.70	15115	19.85	17810	16.84
6180	48.54	9480	31.65	11685	25.67	15140	19.82	17835	16.82
6200	48.39	9500	31.58	11740	25.55	15190	19.75	17860	16.80
7060	42.49	9510	31.55	11750	25.53	15235	19.69	17885	16.78
7065	42.46	9550	31.41	11800	25.42	15250	19.67	17900	16.76
7080	42.37	9555	31.40	11820	25.38	15260	19.66		

I=South East Asia. II=Australia & New Zealand. III=Japan. IV=Korea. V=India & Pakistan. VI=North Africa & West Asia. VII=Europe. VIII=Eastern North America. IX=Western North America. X=Latin America. XI=Central America. XII=Western Africa. XIII=S. E. Africa. XIV=East Africa. XV=South Africa. XVI=Philippines.

Languages		Beamed Areas	Winter-Spring 1960/61	Summer-Autum 1961
Amoy:	23.30–00.30	I	31, 25, 19	31, 25, 19
	23.30–00.30	XVI, II	25, 19	25, 19
	12.00–13.00	I	31, 25, 19	31, 25, 19
Arabic:	16.30–17.30	VI	49, 41, 31, 25	49, 31, 25, 19
	18.30–19.30	VI	49, 41, 31, 25	49, 31, 25, 19
Burmese:	00.30–01.00	I	25, 19	25, 19
	12.00–12.30	I	25, 19	25, 19
	14.00–14.30	I	252, 25, 19	252, 25, 19
Cambodian:	10.30–11.30	I	25, 19	25, 19
	11.30–12.30	I	231	231
	12.30–13.00	I	25, 19	25, 19
	14.30–15.00	I	25, 19	25, 19
Cantonese:	17.00–18.00	V	41, 31, 25, 19	25, 19, 16
	22.30–23.00	I	49, 41, 31, 25	31, 25, 19
	23.00–23.30	I	49, 41, 31, 25	31, 25, 19
	01.00–02.00	VIII	41, 31, 25, 19	25, 19, 16
	03.00–04.00	IX	25, 19, 16	25, 19, 16
	10.00–11.00	II, XVI	25, 19	25, 19
	11.00–12.00	I	252, 31, 25, 19	252, 31, 25, 19
Chaochow:	00.00–01.00	I	31, 25, 19	31, 25, 19
	14.00–15.00	I	252, 31, 25, 19	252, 31, 25, 19
English:	16.00–17.00	V, XIII	31, 25, 19	25, 19, 16
	17.00–18.00	V, XIII	252, 31, 25, 19	252, 31, 25, 19
	18.00–19.00	XII	31, 25, 19	31, 25, 19
	19.00–20.00	VII	49, 41, 31, 25	41, 31, 25, 19
	20.30–21.30	VII	49, 41, 31, 25	41, 31, 25, 19
	21.30–22.30	VI	49, 41, 31, 25	41, 31, 25, 19
	01.00–02.00	VIII	41, 31, 25, 19	31, 25, 19, 16
	02.00–03.00	VIII	41, 31, 25	31, 25, 19
	03.00–04.00	XIV	25, 19, 16	25, 19, 16
	03.00–04.00	IX	31, 25, 19, 16	25, 19, 16
	04.00–05.00	IX	31, 25, 19, 16	25, 19, 16
	08.30–09.30	II	25, 19, 16	19, 16
	09.30–10.30	II	25, 19, 16	19, 16
	11.00–12.00	XVI, II	25, 19	25, 19
	12.00–13.00	I	252, 25, 19	252, 15, 19
	14.00–15.00	V, XIII	31, 25, 19	25, 19, 16
	15.00–16.00	XII	31, 25, 19	31, 25, 19
French:	18.30–19.30	VI, VII	49, 41, 31, 25	41, 31, 25, 19
	19.30–20.30	VII, VI	49, 41, 31, 25	41, 31, 25, 19
	20.30–21.30	VI, VII	49, 41, 31, 25	41, 31, 25, 19
	21.30–22.30	VII, XII	49, 41, 31, 25	41, 31, 25, 19
German:	18.00–18.30	VII	49, 41, 31, 25	41, 31, 25, 19
	20.00–20.30	VII	49, 41, 31, 25	41, 31, 25, 19
Hindi:	15.00–16.00	V	252, 31, 25, 19	252, 31, 25, 19
	16.00–17.00	V	31, 25, 19	25, 19, 16
	03.00–03.30	V	25, 19, 16	25, 19, 16
Indonesian:	23.00–23.30	I	25, 19	25, 19
	08.30–09.00	I	25, 19	25, 19
	10.30–11.00	I	25, 19	25, 19
	13.00–13.30	I	25, 19	25, 19
Italian:	19.00–19.30	VII	41, 31, 25	31, 25, 19
	20.00–20.30	VII	41, 31, 25	31, 25, 19
Japanese:	21.00–21.30	III	294, 65, 49, 31	294, 49, 31
	09.00–10.00	III	294, 49, 31	294, 31, 25
	11.00–12.00	III	294, 49, 31	294, 31, 25
	12.30–13.30	III	294, 49, 31	294, 31, 25
	14.00–15.00	III	294, 65, 49	294, 31
Ke-chia:	00.00–00.30	I	31, 25, 19	31, 25, 19
	10.00–11.00	I	31, 25, 19	31, 25, 19
Korean:	10.00–11.00	IV	49, 31	31
	12.00–12.30	IV	252, 49, 31	252, 31
	13.30–14.00	IV	252, 49	252, 31
Laotian:	00.00–00.30	I	231, 25, 19	231, 25, 19
	11.00–11.30	I	231	231
	13.00–14.00	I	25, 19	25, 19
	15.00–15.30	I	25, 19	25, 19
Malayan:	10.00–10.30	I	25, 19	25, 19
	12.30–13.00	I	231	231
	14.00–14.30	I	25, 19	25, 19
Persian:	18.00–18.30	VI	49, 41, 31, 25	49, 31, 25, 19
	15.00–15.30	VI	49, 41, 31, 25	49, 31, 25, 19
	15.30–16.00	VI	49, 41, 31, 25	49, 31, 25, 19
Portuguese:	18.30–19.00	XV	31, 25, 19	25, 19, 16
	19.30–20.00	XII, VII	49, 41, 31, 25	41, 31, 25, 19
	23.00–23.30	X	49, 41, 31, 25	41, 31, 25, 19

Portuguese:	00.00–00.30	X	41, 31, 25, 19	41, 31, 25, 19
	01.30–02.00	X	41, 31, 25, 19	41, 31, 25, 19
Spanish:	20.30–21.30	VII	49, 41, 31, 25	41, 31, 25, 19
	22.00–23.00	X	49, 41, 31, 25	41, 31, 25, 19
	00.30–01.30	X	41, 31, 25, 19	41, 31, 25, 19
	02.00–03.00	XI, X	31, 25, 19, 16	31, 25, 19, 16
Standard Chinese:	17.30–18.30	VI	49, 41, 31, 25	49, 31, 25, 19
	20.00–21.00	VII, VI	49, 41, 31, 25	49, 31, 25, 19
	22.30–23.00	I	49, 41, 31, 25	31, 25, 19
	23.00–23.30	I	49, 41, 31, 25	31, 25, 19
	02.00–03.00	VIII	41, 31, 25, 19	31, 25, 19, 16
	04.00–05.00	IX	31, 25, 19, 16	31, 25, 19, 16
	09.00–10.00	I	31, 25, 19	31, 25, 19
	13.00–14.00	I	252, 31, 25, 19	252, 31, 25, 19
Thai:	23.30–00.00	I	25, 19	25, 19
	11.30–12.00	I	25, 19	25, 19
	13.30–14.30	I	231, 25, 19	231, 25, 19
Turkish:	17.30–18.00	VI	49, 41, 31, 25	49, 31, 25, 19
	19.30–20.00	VI	49, 41, 31, 25	49, 31, 25, 19
Vietnamese:	09.30–10.00	I	25, 19	25, 19
	10.30–11.00	I	231	231
	11.30–12.00	I	25, 19	25, 19
	13.30–14.00	I	25, 19	25, 19
	14.30–15.00	I	231, 25, 19	231, 25, 19

INT.-SIG.:



V. by QSL-card or letter.

TAIWAN (FORMOSA)

L.T.: GMT+8 h. Su.: June-Sept.: GMT+9 h. – **Pr. L.**: Mandarin, Cantonese, Amoy, Hakka, Chauchow. – **Po.**: 10.300.000. – **Revrs.**: 445.447. – **E.C.**: 110 V., A.C., 60 c/s.

BROADCASTING CORPORATION OF CHINA

(Private Enterprise under Go. contract) – F.I.: By Go. and adv.'s **ADDR.**: New Park, Taipei. **Cable**: Broadcast Taipei. **Te.**: 25.432. – **L.P.**: Chairman of the Board of Dir's: H. C. Liang. Man. Dir., Dir. For. Rel.: J. Wei. Dir. Prgr.: N. Chiu. Dir. Tec.: Shan-Wei Wang.

STATIONS: Medium Waves: 0.1/0.5/1/20/100 kW.
Taipei: 660, 960, 1070 kc – **Hsinchu:** 1020 kc – **Miaoli:** 1410 kc – **Taichung:** 720, 960, 1520 kc – **Chiayi:** 750, 1040, 1210, 1460 kc – **Tainan:** 890, 1280, 1540 kc – **Kaohsiung:** 860, 1220, 1450 kc – **Taitung:** 820, 1410 kc – **Yuli:** 1120 kc – **Hualien:** 860, 1190, 1470 kc – **Ilan:** 1380 kc.
Short Waves: 05./1/3.5/20/50 kW.

Taipei:

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
3215	93.31	7225	41.52	11725	25.59	15225	19.70	17815	16.84
5980	50.17	7250	41.38	11735	25.56	15235	19.69	17890	16.77
6040	49.67	9660	31.06	11860	25.30	15345	19.55	21550	13.92
6180	48.54	9690	30.96	11920	25.17	17720	16.93		
7130	42.08	9720	30.86	15105	19.86	17785	16.87		

Chiayi:

								Taichung:	
6095	49.22	9630	31.15	11970	25.06	15320	19.58	3965	75.66
7150	41.96	9660	31.06	15280	19.63	21735	13.80		

HOME SERVICE: 21.00–16.00 on 660/1070/1190/3215/5980 kc/s.
FOREIGN SERVICE: I = No. Am., Hawaii. II = So. Ea. Asia. III = Japan/Korea. IV = So. Africa.

Time	Area	m.b.	L.
01.30–01.45	I	41, 19, 16	English
04.00–06.00	II	41, 31, 19, 16	
10.05–11.20	III	41, 19, 16	Eng./Japanese *)
11.30–13.45	II	41, 19, 16 **)	
14.00–16.00	II	41, 19***)	
17.15–18.00	IV	25, 19, 16	

*) Sun. also Korean. **) **English** 12.30–13.30. ***) Indonesian 14.00–14.30.

ANN.: HOME SCE.: E.: "This is the (1st, 2nd or 3rd) network of BCC". **Foreign Sce.**: E.: "This is the Voice of Free China, Taipei, Taiwan". V. by QSL-card or letter. – **PUB.**: Prgr. schedule free on request. – **F.PL.**: 3 20 kW s.w.st.'s early 1961 on 16, 19 and 25 m.b.

CHENG SHENG BROADCASTING CORP. (Comm.)

ADDR.: 140/6 Chang An West Road, Taipei. **Cable**: CSBCOA. – **L.P.**: Dir. Gen.: S. H. Shia. Dir. Tec.: T. Cheng.

HOME SERVICES:

	Call	kc/s	m	kW		
1)	BEC36	590	508.6	1	}	23.00–18.00
	BEC36	5995	50.04	1	}	**English:** 04.15–04.45
	BEC36	7200	41.67	3.5	}	

	Call	kc/s	m	kW		Call	kc/s	m	kW
2)	BEC34	820	365.9	1	5)	BEV36	1130	265.5	1
3)	BEV35	850	352.9	1	6)	BEV72	930	322.6	1
4)	BEV58	1290	232.5	1	7)	BEV60	1010	297.0	1
	BEV59	1170	256.4	1	8)	BEV37	1530	196.0	1

1) **The Voice of Righteousness, Taipei** – 2) **Cheng Sheng the First Dept.,** Taipei – 3) **Cheng Sheng the Second Dept.,** Taipei – 4) **The Farmers Broadc. Station,** Taiching – 5) **Yuan Lin Broadc. Station, Yuan-Lin** – 6) **Kung I Broadc. Station,** Chiayi – 7) **Cheng Yen Broadc. Station,** Kaohsiung – 8) **Chang Tung Station,** Taiting.
2)–8): 22.00–16.30.

FU SHING BROADCASTING STATION (Go.)

ADDR.: P.O. Box 799, Taipei. **Te.**: 43126. – **L.P.**: Dir. Gen.: C. Kung. Dir. Tec.: L. Lee.
HOME SCE.in Mandarin: 21.50–06.30, 08.50–17.10 on 15 mw.st.'s (BEH) and BEH22 15175 kc/s 19.77 m 1 kW.
FOREIGN SCE. in Mandarin: 15.30–16.00 on all freq.s: "The Voice of Chinese Overseas". – V. by QSL-card. Rp. – **F.PL.**: Two new branch st.s. – **PUB.**: Prgr. sched. free on request.

POLICE BROADCASTING STATION Network (Go.)

ADDR.: No. 1 Tientsin Street, Taipei. – **L.P.**: Dir. Gen.: W. Pi. Dep. Dir.: T. Cheng-Yu. Dir. Tec.: C. C. Yin. Prgr. Dir.: C. M. Lei.
HOME SERVICE: W. 22.00–00.30, 02.00–07.05, 08.00–17.05. Sun. 00.30–17.05.

	Call	kc/s	m	kW		Call	kc/s	m	kW
Taipei	BEP22	940	319.1	10	Changhwa	BEP24	780	384.6	1.5
	BEP23	5960	50.34	1	Kaoshung	BEP25	1120	267.8	1.5
Hsinchu	BEP26	1120	267.8	1.5					

N.: 23.30, 03.00, 04.50, 09.00, 11.30, 12.00, 14.00, 15.50, 16.00. **Nat. Music:** 10.10. – V. by QSL-card or letter. – **PUB.**: Prgr. sched. free on request. – **F.PL.**: more relay st.s.

TAIWAN COMMERCIAL BROADCASTING STATIONS ASSOCIATION

ADDR.: 22 Lane 81, Maoy Str., Taipei.
Short Wave: 1) BEG23 7180 kc/s 41.78 m 1 kW.
You Sze. Broadc. St., 49 Kun Ming St. Taipei: 21.30–24.00, 02.30–05.00, 08.30–14.30.
+ 29 mw. st's not mentioned.

MILITARY BROADCASTING STATIONS (Go.)

ADDR.: of Adm,: Military Broadcasting Corps, Ministry of National Defense, Taipei.

	Call	kc/s	m	kW		Call	kc/s	m	kW
1)	BEC47	730	411.0	1	4)	BEC30	9505	31.56	1.5
	–	1110	270.0	1	5)	BEC33	840	357.0	1.5
	–	3300	90.91	1		BEC34	1330	225.6	1.5
2)	BEC22	1100	272.7	3		BEC35	5970	50.25	1.5
	BEC23	1520	197.4	1	6)	BEC31	1350	222.2	1
3)	BEC27	1200	250.0	1		BEC32	7270	41.27	1
	BEC28	7240	41.44	1	7)	BEC25	700	428.6	0.5
4)	BEC29	1250	240.0	1.5		BEC26	5950	50.42	3.5

1) Kinmen, Quemoy: 22.30–01.30, 03.00–05.00, 10.00–14.30.
2) No. 3 Section I, Hsinyi Rd., Taipei: 21.00–23.00, 02.30–06.00, 08.30–15.00.
3) Behind the Taichung Municipal Govt., Taichung: 21.00–23.30, 02.30–06.00, 08.30–14.30.
4) 126 Takanpu, Kaohsiung: 21.00–24.00, 02.30–05.30, 08.30–14.30. – V. by QSL-card.
5) New Army Broadc. Station, Tsoying: as 4).
6) Hualien: 21.00–23.05, 02.30–05.30, 08.30–14.00.
7) No. 3, Section I, Hsinyi Rd., Taipei: 21.00–23.00, 08.30–15.30.

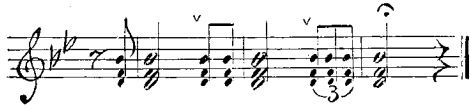
The Military Broadcasting Corps and The Air Force Broadcasting Station are two different organizations. The first belongs to the Political Dept. of Ministry of National Defence, the latter to Headquarters of Chinese Air Force. They are without any relationship on their administration and service.

AIR FORCE BROADCASTING STATION (Military)

FI.: By Go. – **ADDR.**: 1st and 2nd Dept.: 1507 Chung Cheng Rd., Taipei. **Te.**: 28981 – **L.P.**: Station Dir.: C. T. Lou. Dir. Prgr.: T. C. Woo. Dir. Tec.: C. S. Luo.

HOME SCE. in Mandarin: *) local **) for China mainland.
***1st Dept.**: 23.00–00.30, 03.55–06.00, 09.00–16.00.
BEC70 980 kc 306.1 m 1.5 kW – BEC71 7260 kc 41.32 m 3.5 kW.
Folklore Music: W. 04.00, Sun. 09.00 – N: 00.00, 04.10, 09.30, 12,00, 14.00. – **Rel.**: Sun. 23.00. – **L.L.**: English 05.00, 11.30.

**) 2nd Dept.: 22.00–24.00, 12.00–18.00.
BEC60 1440 kc/s 208.3 m 1.3 kW
BEC61 6105 – 49.14 – 20 –
BEC62 9775 – 30.69 – 3.5 –
} Folklore Music: Sun. 23.05, 15.05. – N.: 22.10 12.00, 14.00, 15.00, 16.00, 17.00
ANN.: "Voice of Chinese Air Force". – INT.-SIG.: (2nd Dept.) Sign of Freedom. – V. by QSL-card and/or letter.



PUB.: Prgr. schedule free on request.

ARMED FORCES RADIO TAIWAN (U.S. Armed Forces)
ADDR.: APO63, San Francisco, California, USA.
L.P.: CWO H. L. Arison Jr. Dir. of Prgr.: J. M. Brooks, DNC.
D. Prgr. in English: W. 21.55–16.00. Sun. 23.55–16.00.
1560 kc/s 192 m 1 kW – 7215 kc/s 41.58 m 1 kW
N.: 23.00(W), 01.00, 02.00, 03.00, 06.00, 08.00, 10.00.
ANN.: "Armed Forces Radio Taiwan, in Taipei" followed by time announcement. – V. by QSL-card.

★ GOA (Portuguese India) ★

L.T.: GMT+5½ h. – Pr. L.: Portuguese, Concani, English, Indian and Pakistan Languages. – Po.: 645.000. – Rcvrs.: 4.300.

EMISSORA DE GOA (Go., Comm.)
ADDR.: Emissora de Goa, C. de Goa. – L.P.: Pres.: J. de Melo Moge Moreira. Dir. J. Mesquitella. Dir. Tec.: V. A. G. Carvalho.

HOME SERVICE: 01.30–09.00, 11.00–17.30.
880 kc/s 340.0 m 5 kW: as above
6080 – 49.34 – 10 – : 05.30–09.00, 11.00–17.30
9690 – 30.96 – 10 – : 01.30–05.30.

FM: 90.0 mc/s, 100.0 mc/s: as 880 kc/s.
Portuguese: 01.30–02.30, 05.30–06.00, 07.30–08.30*, 15.30–17.30. English: 06.30–07.30, 12.50–13.30**, – N.: 07.10. – Marathi: 02.30–03.30. – Urdu: 03.30–04.30. – Hindi: 04.30–05.30. – Gujerathi: 06.00–06.30. – Concani: 11.00–12.00, 13.30–14.30. – Portuguese/Concani: 12.00–12.30**.
* Armed Forces Prgr. **) Catholic prgr.

TESTTRANSMISSIONS: 50 kW – To Africa on 15410 kc/s – To Persian Gulf on 15385 kc/s – To Far East on 17835 kc/s.
ANN.: E.: "Radio Goa – Voice of Goa – Voice of Portugal". P.: "Emissora de Goa – Voz de Goa – Voz de Portugal" – V. by QSL-card.

★ HONG KONG (British) ★

L.T.: GMT+8 h. (Su. Apr. to Oct.+9 h.). – Pr.L.: Chinese, English. – Po.: 2.806.000. – Rcvrs.: 115.341. – E.C.: 200/346 V., A.C., 50 c/s.

RADIO HONG KONG (Go.)
F.I.: Wholly by Hong Kong Go. AD.: Not allowed. – ADDR.: Mercury House, P.O. Box 200, Hong Kong. Cable: Broadcasts, Hong Kong. Te.: 26822. – L.P.: Controller of Broadc.: D. E. Brooks. Dir. Prgr.: Chinese: N. Y. Chow. English: T. A. Birch. Dir. Tec.: R. Winyard.

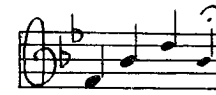
HOME SERVICE
ENGLISH: ZBW 860 kc/s 348.8 m 2 kW. – FM: 92 mc/s 5 kW: D. 23.00–16.00. – N.: 00.00, 05.15, 11.00 (BBC), 13.00 (BBC Newsreel), 15.00 (relay R. Australia). – Wrp.: 23.58, 10.58, 13.13, 14.58. – French Half Hour: Tues. 09.15. – Portuguese Half Hour: Thurs. 09.15.

CHINESE: ZEK 640 kc/s 468.7 m 2 kW – ZBW 3940 kc/s 76.14 m 2.5 kW. – FM.: 94 mc/s 5 kW: 23.00–16.00.
N.: 00.00, 05.30, 10.00, 12.00*), 12.30*). – Wrp.: 23.58, 05.28, 11.58, 15.30. *) Rel. Far Eastern st. from London.
ANN.: English: "This is Radio Hong Kong". Chinese: "Ni do hai Heung Kong Kwong bor deen toy". – INT.-SIG.: Chimes V. by QSL-card. R.p.

HONG KONG COMMERCIAL BROADCASTING CO.
FI.: by advertisements. AD.: 10% of broadc.time. – ADDR.: P.O. Box 3000, Hong Kong. Cable: "Radioads". Te.: 26096. – L.P.: Man. Dir.: G. Ho. Dir. English Prgr's: N. Demuth. Dir. Chinese Prgr's: T. P. Kwong. Dir. Tec.: W. S. Ir.

HOME SCE.: 23.00–16.00.
1050 kc/s 286 m 1 kW: Cantonese – 1530 kc/s 196 m 1 kW: English.
English: N.: 00.00, 05.15, 12.00, 16.00. Wrp.: 00.00, 03.30, 05.30, 08.30, 12.00, 15.15, 16.00. – Cantonese: Wrp.: 00.00, 06.00, 10.00, 15.00.
L.L. (English): W. 23.30–23.45.

ANN.: E.: "Commercia Radio, Hong Kong". – INT.-SIG.: Chimes. V. by letter.



★ INDIA ★

L.T.: GMT+5½ h. – Pr.L.: English, Hindi, Tamil, Telugu, Assamese, Bengali, Gujarati, Kashmiri, Malayalam, Oriya, Punjabi, Sanskrit, Urdu, Kannada, Marathi. – Po.: 387.350.000. – Rcvrs.: 1.876.439 – E.C.: 220 V., D.C., A.C., 50 c/s.

ALL INDIA RADIO (Go.)
ADDR.: Akashvani (AIR) Headquarters, Akashvani Bhavan, Parliament Str., New Delhi. Cable: "Airgeneral". Te.: 30101.
L.P.: Dir. Gen.: J. C. Mathur I. C. S. Dep. Dir. Gen.: Prgr.: B. P. Bhatt. Adm.: S. Parameshwaran. Inspection: V. K. Narayana Menon. Dir. Prgr.: Dr. R. M. Marathey. Chief Eng.: A. C. Ramchandani. Dir. News Sce.: M. V. Desai. Dir. External Sce.: Miss M. Masani.

STATIONS: Medium Waves:

North Regional	kc/s	m		kc/s	m
Delhi A	810	370.4	Hyderabad	740	405.4
Delhi B	1070	280.4	Bangalore	610	491.8
Delhi C	1370	219.0	Dharwar	1360	220.6
Lucknow	760	394.7	West Regional		
Allahabad	980	306.1	Bombay A	1040	288.5
Patna	620	483.9	Bombay B	550	545.5
Jullundur	710	422.5	Bombay C	1230	243.9
Jaipur	1120	267.9	Nagpur	590	508.5
Ajmer	600	500.0	Ahmedabad	850	352.9
Indore	650	461.5	Baroda	850	352.9
South Regional			Poona	780	384.6
Madras A	720	416.7	Rajkot	910	329.7
Madras B	1420	211.3	East Regional		
Tiruchirapalli	770	389.6	Calcutta A	670	447.8
Vijayawada	840	357.1	Calcutta B	1000	300.0
Trivandrum	660	454.5	Cuttack	965	310.9
Kozhikode	680	441.2	Gauhati A	730	411.0
Trichur	580	517.2			

Short Waves: Delhi VUD:

kc/s	m	kc/s	m	kc/s	m	kc/s	m
4940	60.73	9705	30.91	15120	19.84	17760	16.92
4960	60.48	9720	30.86	15130	19.83	17780	16.87
5955	50.38	9730	30.83	15140	19.82	17795	16.86
6040	49.67	9740	30.80	15150	19.80	17800	16.85
6190	48.47	9750	30.77	15160	19.79	17815	16.84
7105	42.22	11710	25.62	15170	19.78	17820	16.84
7120	42.13	11730	25.58	15190	19.75	17830	16.83
7150	41.96	11740	25.55	15225	19.70	17850	16.81
7170	41.84	11760	25.51	15235	19.69	17885	16.78
7190	41.72	11780	25.47	15245	19.68	21560	13.91
7225	41.52	11790	25.45	15270	19.65	21570	13.91
7290	41.15	11800	25.42	15290	19.62	21580	13.90
9505	31.56	11810	25.40	15310	19.60	21605	13.89
9530	31.48	11830	25.36	15370	19.52	21615	13.88
9575	31.33	11850	25.32	15400	19.48	21620	13.88
9585	31.30	11920	25.17	17705	16.94	21650	13.86
9605	31.23	11925	25.16	17720	16.93	21685	13.84
9620	31.19	11940	25.13	17725	16.93	21690	13.83
9630	31.15	12020	24.96	17730	16.92	21695	13.83
9670	31.02	15105	19.86	17735	16.92	21700	13.82
						21710	13.82

Lucknow (No. Reg. Sce.): 7250 kc/s 41.38 m – 9575 kc/s 31.33 m 4880 kc/s 61.48 m – 6170 kc/s 48.62 m.
Ranchi (No. Reg. Sce.): 4850 kc/s 61.86 m – 7160 kc/s 41.90 m.
Simla (No. Reg. Sce.): 4760 kc/s 63.03 m – 6040 kc/s 49.67 m – 7170 kc/s 41.84 m.
Bhopal (No. Reg. Sce.): 4820 kc/s 62.24 m – 7160 kc/s 41.90 m – 9670 kc/s 31.02 m.
Madras (So. Reg. Sce.): VUM – 4920 kc/s 60.98 m – 7260 kc/s 41.32 m 9590 kc/s 31.28 m
Hyderabad (So. Reg. Sce.): 4990 kc/s 60.12 m – 7140 kc/s 42.02 m – 9720 kc/s 30.86 m.
Bombay (West Reg. Sce.): VUB – 6065 kc/s 49.46 m – 7240 kc/s 41.44 m – 9550 kc/s 31.41 m.
Calcutta (Ea. Reg. Sce.): VUC – 6010 kc/s 49.92 m – 7210 kc/s 41.61 m – 9530 kc/s 31.48 m
Gauhati (Ea. Reg. Sce.): 4775 kc/s 62.83 m – 4940 kc/s 60.73 m – 6130 kc/s 48.94 m – 7150 kc/s 41.96 m – 9505 kc/s 31.56 m – 9575 kc/s 31.33 m.

HOME SERVICES

NORTH REG. SCE. (Gujerati, Marathi, Kannada, Hindi, English):
Delhi A: 810 kc/s: D.: 01.00–03.30, 07.00–08.30, 12.25–17.30. – **4960 kc/s:** after 14.30. – **6190 kc/s:** up to 02.15, 12.25–13.00. – **7290 kc/s:** 02.30–03.30. – **9630 kc/s:** between 03.45 and 08.00.
Delhi B: 1070 kc/s: 01.00–03.30, 07.30–08.30, 12.25–17.30. – **4960 kc/s:** 13.15–14.30. – **9630 kc/s:** 08.00–09.00. – **9705 kc/s:** 13.15–14.15.
Delhi C: 5955 kc/s: 14.15–15.15.
Lucknow: 760 kc/s: 01.00–03.30, 07.00–09.00, 12.30–17.30. – **4880 kc/s:** evening. – **6170 kc/s:** up to 02.15. – **7250 kc/s:** 02.30–03.30. – **9575 kc/s:** after 03.45 and afternoon.
Patna: 620 kc/s: 01.00–03.30, 07.00–09.00, 12.00–17.00.
Ranchi: 4850 kc/s: 12.00–16.00 (Sat. 17.30).
Jullundur: 710 kc/s: 01.30–04.00, 06.30–08.30, 12.30–17.00 (Sat. 17.30).
Jaipur & Ajmer: 1120/600 kc/s: 01.30–03.00, 07.00–08.30, 12.30–16.30 (Sat. 17.30).
Simla: 6040 kc/s: 01.25–03.00. – **4760 kc/s:** 12.30–15.45 (Sat. 17.30).
Indore: 650 kc/s: 01.30–03.30, 07.00–08.30, 12.30–16.30.
Bhopal: 7160 kc/s: 01.30–03.30. – **9670 kc/s:** 07.00–08.30. – **4820 kc/s:** 12.30–16.30 (Sat. 17.30).

SOUTH REG. SCE. (Tamil, Telugu, Kannada, Malayalam, English):
Madras A: 720 kc/s: 01.25–02.45, 07.00–09.10, D. 12.00–17.00 (Sat. 17.30).
Madras B: 1420/7260 kc/s: 01.25–02.45. – **1420/9590 kc/s:** 06.30–09.10. – **1420/4920 kc/s:** 12.00–17.00 (Sat. 17.30).
Tiruchirapalli: 770 kc/s: 01.30–02.45, 07.00–09.15, 11.15–16.30 (Sat. 17.30).
Vijayawada: 840 kc/s: 01.00–03.00, 07.00–08.30, 12.30–17.00 (Sat. 17.30).
Trivandrum/Kozhikode/Trichur: 660/680/580 kc/s: 01.45–03.15, 07.00–08.20, 12.00–16.30 (Sat. 17.30).
Hyderabad: 740/7140 kc/s: 01.00–03.15. – **740/9720 kc/s:** 07.00–09.20. – **740/4990 kc/s:** 12.30–17.00.
Bangalore: 610 kc/s: 01.30–03.00, 06.30–08.30, 12.30–17.00 (Sat. 17.30).
Dharwar: 1360 kc/s: 01.30–03.30, 12.30–17.00 (Sat. 17.30).

WEST REG. SCE. (Gujerati, Marathi, Kannada, Hindi, English):
Bombay A: 1040 kc/s: 01.00–03.30, 06.30–09.00, 12.00–17.30. – **7240 kc/s:** 01.00–03.30. – **9550 kc/s:** 10.30–11.30. – **6065 kc/s:** 12.00–13.30, 15.45–17.30.
Bombay B: 550 kc/s: 01.30–04.00, 06.30–09.00, 12.00–17.30. – **7240 kc/s:** 03.30–04.00. – **6065 kc/s:** 13.30–15.45. – **9550 kc/s:** 06.30–09.00.
Nagpur: 590 kc/s: 01.45–03.15, 05.30–06.00, 07.00–08.30, 12.30–17.00 (Sat. 17.30).
Ahmedabad/Baroda: 850 kc/s: 01.30–03.30, 07.00–08.30, 12.00–17.00.
Poona: 780 kc/s: 01.30–03.30, 07.00–08.30, 12.30–17.00.
Rajkot: 910 kc/s: 01.30–03.30, 12.00–17.00 (Sat. 17.30).

EAST REG. SCE. (Bengali, Oriya, Assamese, Hindi, English):
Calcutta A: 670 kc/s: 01.30–03.30, 07.00–09.30, 11.30–17.00. – **6010 kc/s:** up to 03.30. – **7210 kc/s:** after 03.30.
Calcutta B: 1000 kc/s: 01.30–03.30, 07.00–09.30, 11.30–17.00. – **6010 kc/s:** after 13.00. – **9530 kc/s:** between 03.30 and 12.40 – **7210 kc/s:** 01.30–03.30, 13.00–17.00 (Sat. 17.30).
Cuttack: 965 kc/s: 01.15–03.30, 07.30–08.30, 12.00–16.15.
Gauhati A: 730/7150 kc/s: 01.15–03.30. – **730/9505 kc/s:** 03.45–08.30. – **730/4775 kc/s:** 12.00–13.15. – **730/4940 kc/s:** 13.15–16.00 (Sat. 17.30).
Gauhati B: 6130 kc/s: 01.30–02.30. – **7150 kc/s:** 10.30–13.00. – **4775 kc/s:** 13.30–15.00.

HOME NEWS in English:
02.30: Delhi B 41, 31, 25, 19, 16 m.b. – Lucknow 41 m.b., Simla 49 m.b. – Bhopal 41 m.b. – Bombay A 41 m.b. – Madras B 41 m.b. – Hyderabad 41 m.b. – Calcutta B 41 m.b. – Gauhati 41 m.b. and all m.w. st.
08.00: Delhi B 31, 25, 19, 16 m.b. – Bombay A, Madras B 31 m.b. – Calcutta B 31 m.b.
12.30: Delhi B 31, 25, 19 m.b. – Bombay A 49 m.b. – Madras B 60 m.b. – Calcutta B 31 m.b.
15.30: Delhi B 49, 41, 31, 19 m.b. – Lucknow 61 m.b. – Ranchi 61 m.b. – Simla 63 m.b. – Bhopal 62 m.b. – Bombay A, Madras B 60 m.b. – Hyderabad 60 m.b. – Calcutta A+B, 41, 31 m.b., Gauhati 60 m.b. and all m.w. st's.

ALL INDIA VARIETY PRGR. (Vividh Bharati)
Medium Wave Service: Delhi C, Bombay C: 02.00-03.30, 13.00–14.15 & 14.45–16.15.
Short Wave Service: 01.30–03.30 9550/9590 kc/s, 05.30–06.30 11830/11950 kc/s, 08.30–09.30 11830/11950 kc/s, 11.00–12.45 11890, 13.00–16.15 7260/9550 kc/s, 16.15–17.30 (Sat. only) 5955 kc/s (from 16.30 also on 7260 kc/s).

FORCES PRGR.: 13.15–14.15 on 1070/4960/9705 kc/s (Delhi B).
SPECIAL PRGR. FOR ANDAMAN AND NICOBAR ISLANDS (from Bombay) 09.00–09.30 (Sat. only) on 17705/21620 kc/s.

EXTERNAL SERVICES

GENERAL SERVICE (For Indians Overseas):

	L.	kc/s	N.
So. Ea. Asia			
23.15–00.15	Hindi	9530/15105/17720	23.16–23.25
00.15–01.15	Tamil	15105/17735/21700	00.16–00.25
11.30–12.30	Tamil	15225	–
Africa, Aden, Mauritius			
03.30–04.00	Konkani	17885/21620	03.31–03.40
04.00–04.15	Hindi	17885/21620	04.01–04.10
04.15–04.30	Gujarati	17885/21650	04.15–04.30
04.30–04.40	English	17885/21620	04.30–04.40
15.45–15.55	English	15105/17830	15.45–15.55
16.30–17.15	Gujarati	15270/17830	16.31–16.40
17.15–18.00	Konkani	15270	–
17.45–18.45	Hindi	11710/15245/21685	17.46–17.55

EASTERN SERVICE

Nepal			
01.30–02.00	Nepali	7225/9630	01.31–01.40
Burma			
00.40–01.15	Burmese	15160/17820	00.40–00.50
11.15–12.15	Burmese	17735/21615	11.16–11.25
China			
11.45–12.30	Cantonese	15105/11830	11.46–11.55
12.30–13.15	Kuoyu	15105/11830	12.31–12.40
No. Ea. Asia			
10.00–11.00	English	15270/17830/21615	10.01–10.10
Australia, New Zealand			
10.00–11.00	English	17730/21690	10.01–10.10
Bhutan, Sikkim, etc.			
12.30–13.15	Tibetan	15245/11940	12.45–12.55
Indonesia			
22.45–23.00	Indonesian	9720/11790	22.46–22.55
12.15–13.15	Indonesian	17800/21615	12.16–12.25
East Asia			
11.15–11.30	French	17705/21580	11.19–11.29
South-East Asia			
00.30–00.40	English	15160/17820	00.30–00.40
13.30–14.30	English	17735/21560	13.31–13.40

WESTERN SERVICE

Afghanistan			
02.45–03.00	Pushto	7225/9630	02.49–02.59
14.45–15.30	Pushto	7225/9605	14.50–15.00
Iran and Afghanistan			
03.45–04.00	Persian	15190/17730	03.50–03.59
*16.15–17.15	Persian	11760/15170	16.16–16.25
West Asia			
05.00–05.30	Arabic	17705/21700	05.05–05.15
17.30–18.30	Arabic	11760/15105	17.40–17.50
Portugal			
19.00–19.30	Portuguese	9720/11710	19.01–19.10
U.K. & West Europe			
19.45–20.45	English	9720/11710	19.46–19.55
West Africa			
19.45–20.45	English	15150/17705	19.46–19.55

* Not on Saturdays.

The frequencies and wavelengths given above are those AIR expects to use during the period Oct. 1960 and onwards. There will, however, be changes in frequencies from time to time and listeners are advised to listen to announcements which will cover all such changes. Detailed information can be obtained from the Programme Journal.
ANN.: Home Sce.: "This is All India Radio". **External Sce.:** "This is Delhi calling in the External Services of All India Radio".
INT.-SIG.: All India Radio's signature is a melody of eight second's duration repeated with intervals of 10 seconds in between. The Instruments used are violin, cello and tampura.

V. by QSL-card. – **PUB.:** "India Calling" free of charge. – Weekly prgr.journal in English and fortnightly prgr.journals in Hindi, Urdu, Tamil, Telegu, Gujerati and Bengali. Requests for free supply of copies may be made either to the Director of External Services of All India Radio, New Delhi or through the Indian Diplomatic Mission concerned. For Home prgr. journals request may be made to the Director General, All India Radio, New Delhi.

RADIO KASHMIR

SRINAGAR A: 1490 kc/s 201.3 m.
In English, Kashmiri, Urdu: 02.00–04.00, 07.00–08.50, 12.15–17.30.

SRINAGAR B: 6110 kc/s 49.10 m: 02.00–04.00 – 7270 kc/s 41.27 m: 07.00–08.50 – 4860 kc/s 61.73 m: 12.15–17.30.
JAMMU: 990 kc/s 303.0 m: 02.00–03.30, 06.30–08.00, 13.00–17.30.

★ INDONESIA ★

L.T.: see Time Table. – **Pr. L.:** Indonesian. – **Po.:** 92.000.000. – **Rcvrs.:** 1.200.000. – **E.C.:** 125.220 V., A.C., 50 c/s.

RADIO REPUBLIK INDONESIA (Go.)

ADDR.: P.O. Box 157, Djakarta. **Cable:** RRI. **Te.:** GBR 5751. **L.P.:** Dir. Gen.: R. Maladi. Vice Dir. Gen.: Soekirman. Dir. Home Sce.: M. Arief. Dir. Overseas Sce.: R. Soetojo. Dir. News Sce.: Harto (Acting). Dir. Tec. Sce.: R. M. Soenario. Dir. Gen. Affairs: S. K. Mahardjo. Dir. Publ. Rel.: R. Soeprapto Soemo Soebroto.
Stations: Bandung: A. F. Mordai (Acting) – Semarang: R. M. Kindarsy – Solo: O. Soemowidjojo – Surabaja: R. M. Sachlan – Padang: T. Harahap (acting) – Bukittinggi: A. Gus (acting) – Palembang: M. Koesoemo – Bandjarmasin: Djaswadi – Denpassar: Soetarjo – Amboina: F. P. Likumahwa – Pontianak: Soedibjo (acting) – Kotaradja: A. Azis – Menado: Soedomo – Sibolga: Soedibjo (acting) – Tandjung Pinang: Soemitro – Tjirebon: Vacant – Ternate: H. Sastrohamidjojo – Djember: K. Alibari – Madiun: Mardjuki – Kupang: A. Miuddin (acting) – Soa Siu: Masud (acting) – Gorontalo: Vacant – Mataram: Vacant – Medan: L. S. Toenaro – Pakan Baru: R. Hutape (acting) – Makassar: A. Hamid – Jogjakarta: R. B. K. Naftali a Samarinda: S. Timur – Singaradja: Vacant – Sumenep: R. Soerjono (acting).

HOME SERVICES

Djakarta (Java Central Station)

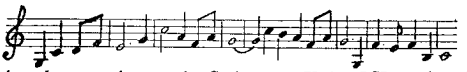
Call	kc/s	m	kW
YDB	2460	121.95	1
YDD	3277	91.54	1
YDB4	3905	76.82	7.5
YDB2	4805	62.42	7.5
YDF	6045	49.63	100
YDB3	7270	41.26	7.5
YDE	11770	25.49	7.5
YDC	15150	19.80	7.5
Bandung (W. Java)			
YDA2	2420	123.96	0.25
YDA	3205	93.60	10
YDA3	4945	60.67	10
Djember (E. Java: relay)			
YDI	2330	128.74	0.3
Jogjakarta (C. Java)			
YDJ3	2350	127.65	1
YDJ	5047	59.43	7.5
YDJ2	7255	41.36	20
Madiun (E. Java: relay)			
YDG	3286	91.26	0.3
Semarang (C. Java)			
YDH	2490	120.48	1
YDH2	3935	76.24	5
YDH3	7210	41.61	5
Surabaja (E. Java)			
YDI3	2370	126.50	1
YDI2	3975	75.48	10
YDI4	6120	49.02	5
Surakarta (C. Java)			
YDG2	2440	122.90	1
YDG3	4875	61.54	10
Tjirebon (W. Java: relay)			
YDA6	2390	125.5	0.3
Padang (S. Sumatra)			
YDL2	2480	120.90	1
YDL	3960	75.76	10
YDL	6170	48.62	10
Palembang (S. Sumatra)			
YDK2	2430	123.50	1
YDK	4855	61.79	10
Bukittinggi (N. Sumatra)			
YDM	4910	61.10	0.3
Kotaradja (N. Sumatra)			
YDN	2390	125.50	0.1
YDN2	4985	60.18	1

Call	kc/s	m	kW
Medan (N. Sumatra)			
YDP2	3395	88.37	1
YDP	5030	59.64	7.5
YDP3	7240	41.44	20
Sibolga (Sumatra: relay)			
YDM6	2330	128.5	1
YDM7	3237	92.66	1
Bandjarmasin (Kalimantan)			
YDO	3250	92.31	10
YDO2	5970	50.25	1
Pontianak (Kalimantan)			
YDW	2350	127.6	1
YDW2	3375	88.89	5
Samarinda (Kalimantan: relay)			
YDY	3295	91.00	1
Makassar (Sulawesi)			
YDQ4	2490	120.5	0.3
YDQ	4750	63.16	3
YDQ3	7295	41.12	20
YDQ2	9550	31.41	0.5
Menado (Sulawesi)			
YDS	3214	93.34	1
YDS2	5990	50.08	1
Gorontalo (Sulawesi)			
YDS	4900	61.22	1
Denpassar (Bali)			
YDU7	2420	123.96	1
YDU2	3945	76.05	10
YDU6	7118	42.14	10
Ambon (Maluku)			
YDR3	3241	92.56	10
YDR2	7140	42.02	1
Ternate (Maluku: relay)			
YDZ	2460	121.95	1
YDZ2	3915	76.64	5
Tdj., Pinang (Sumatra: relay)			
YDX	4920	60.98	1
Kupang (Nusa Tenggara)			
YDV	3259	92.05	0.3
Mataram (Nusa Tenggara)			
YDX	3223	93.09	1
Singaradja (Nusa Tenggara)			
YDU	4840	61.98	0.3
Sumenep (Madura)			
YDI20	3355	89.41	0.3
Soa Siu (West Irian Province)			
YDT	3960	75.75	1

Nat. Prgr. on 2460, 6045, 11770 (only W. 05.30–06.45), 3375 kc/s (only D. 09.30–15.30): W. 22.27–23.45, 05.27–06.45, 09.27–15.30. Sun.: 23.27–06.45, 09.27–15.30.

N.: W. 22.30, 23.30, 04.30, 05.30, 11.30, 12.30, 14.30. Sun. 23.30, 00.30, 04.30, 05.30, 11.30, 12.30, 14.30. – **Folklore Music:** Tues. 15.00, Sun. 15.00 (fortnightly). – **L.L.:** English: Sun., Mo., Thurs. 13.30. Indonesian: Wed., Fri., Sat. 13.30.

Bandung, Jogjakarta, Semarang, Surabaja, Surakarta, Tjirebon, Bandjarmasin, Pontianak: W. 22.27–23.45, 05.27–06.45, 09.27–15.30. Sun. 23.27–06.45, 09.27–15.30.
Padang, Bukittinggi, Kotaradja: W. 23.27–00.45, 06.27–07.45, 10.27–16.30. Sun. 00.27–07.45, 10.27–16.30.
Djember, Madiun: D. 22.27–23.45, 09.27–15.30. Sun. 23.27–06.45, 09.27–15.30.
Gorontalo, Kupang: D. 09.57–14.00. – **Ternate, Soa Siu:** 09.27–14.30.
Palembang: W. 22.57–00.15, 05.57–07.15, 09.57–16.00. Sun. 23.57–00.45, 09.57–16.00.
Medan: W.: 23.27–01.30, 06.27–08.15, 10.27–16.30. Sun.: 00.27–08.15, 10.27–16.30.
Sibolga: W. 23.27–00.45, 10.27–16.30. Sun.: 00.27–01.45, 10.27–16.30.
Makassar: W.: 21.57–23.15, 04.57–06.45, 08.57–15.00. Sun.: 22.57–06.15, 08.57–15.00.
Menado: W.: 22.00–23.15, 05.00–06.45, 09.00–15.00. Sun.: 23.00–06.15, 09.00–15.00.
Denpassar: W.: 22.25–23.45, 05.25–06.45, 09.30–15.30. Sun.: 23.25–06.45, 09.30–15.30.
Ambon: W.: 21.30–22.45, 04.27–05.45, 08.30–14.30. Sun.: 22.30–05.45, 08.30–14.30.
Tdj. Pinang: D. 10.27–16.30. – **Mataram:** D. 10.27–14.30. – **Singaradja:** D. 10.27–14.30 (relay).
Sumenep: D. 22.27–23.45, 09.27–15.30. Sun.: 23.27–01.30, 09.27–15.30.
ANN.: Nat. Prgr.: Indonesian: "Inilah Radio Republik Indonesia di... (name of the station).
INT.-SIG.: Nat. Prgr.:



played on hammond organ by Sudarnoto. **V.** by QSL-card or letter

FOREIGN SERVICE FROM DJAKARTA

	kc/s	m	kW		kc/s	m	kW
YDD	1111	270.0	2.5	YDF2	11770	25.49	100
YDD	3277	91.55	1	YDE	11770	25.49	7.5
YDF5	7220	41.55	50	YDF2	11785	25.46	100
YDB3	7270	41.27	7.5	YDF3	11795	25.43	100
YDF6	9585	31.30	50	YDF2	11825	25.37	100
YDF6	9710	30.90	50	YDC	15150	19.80	100
YDF8	9865	30.40	50	YDF4	17810	16.84	50

English: 11.00–12.00 (Au., NZ., Pa.), 14.30–15.30 (So. Ea. As., India) 9585/11785 kc/s; 19.00–20.00 (Eu., NZ.) 9585/11825 kc/s.
French: 15.30–16.30 (Indo-China, So. Ea. As.) 1111/3277/7270 kc/s; 17.00–18.00 (Eu., M. E., Af.) 9585/11825 kc/s.
Indonesian: 18.00–19.00 (M. E., Eu.) 9865/11825 kc/s; 01.00–02.00 (Am., So. Ea. As.) 9585/11825 kc/s.
Chinese: 12.00–13.00 (Ea. As.) 9585/11825 kc/s.
Arabic: 13.00–14.00 (So. Ea. As.) 9585/11825 kc/s.
Hindi: 15.30–16.00 (So. & So. Ea. As., Af.) 9585/11825 kc/s.
Urdu: 14.00–14.30 (So. & So. Ea. As.) 9585/11825 kc/s.

ENGLISH PRGR.:
N.: 11.15, 14.45, 19.15. – **"Indonesia in Word and Music":** Mo. 11.42, 15.12, 19.42. – **"From Indonesian History":** Tues.: 11.35, 15.05, 19.35. – **"My Country and my People":** Thurs.: 11.35, 15.05, 19.35. – **"Indonesian Music":** Sun.: 11.27, 14.57, 19.27. Fri.: 11.02, 14.32, 19.02. Sat.: 11.43, 15.13, 19.43. – **"Turntable Time":** Tues.: 11.43, 15.13, 19.43. (Request Prgr. consisting of Western songs and popular Indonesian tunes).

INDONESIAN PRGR.: N.: 18.15, 18.55, 01.15, 01.55.
ANN.: E.: "This is the Voice of Indonesia broadcasting from Djakarta". **F.:** "Ici Djakarta, la voix de l'Indonésie".
INT.-SIG.: Some instrumental music in accordance with the genre of the next programme. – **V.** by QSL-card or letter. Listeners rep.s are welcome.
PUB.: Weekly: "Pedoman Radio", "Berita Radio" (home prgr.). – Monthly: "Voice of Indonesia" (Foreign broadc. in Indonesian, Hindi, Urdu, Chinese, Arabic, English, French, Dutch); "Saut Indonesia" in Arabic. – Write to "Voice of Indonesia", RRI. P.O. Box 157, Djakarta.

★ JAPAN ★

L.T.: GMT+9 h. – **Pr.L.:** Japanese. – **Po.:** 93.250.000. – **Rcvrs.:** 13.078.308. – **E.C.:** 100/200 V., A.C., 50 c/s.

NIPPON HOSO KYOKAI (Public Corporation, non-commercial) (The Japan Broadcasting Corporation).

FI.: By state. – **ADDR.:** No. 2, 2-chome, Uchisaiwai-cho, Chiyoda-ku, Tokyo. – **Cable:** Radio NHK, Tokyo.
L.P.: Chairman, Board of Governors: Shinnosuke Abe. Pres., NHK: Hideo Nomura. Vice Pres.: K. Mizokami. Man. Dir.'s: Y. Maeda, Y. Tanabe, K. Ono. Auditors: S. Shibata, Y. Hashimoto, K. Sugimoto. Dir. Planning Dept.: T. Akimoto. Dir. Auditing Chamber: K. Shibahashi. Dir. Prgr. Examination Chamber: M. Miyagawa. Dir. Gen.

Affairs Dept.: M. Akagi (Man. Dir.). Dir. Finance Dept.: Y. Kasuga (Man. Dir.). Dir. Public Rel. Dept.: K. Syudo (Man. Dir.). Dir. Prgr. Management Sept.: S. Shimaura (Man. Dir.). Dir. Education Dept.: H. Asanuma. Dir. Entertainment Dept.: Y. Yoshikawa. Dir. News. Dept.: H. Sano. Dir. International Broadc. Dept.: I. Matsui (Man. Dir.). Dir. Radio & TV Culture Research Institute: I. Nihira. Dir. Eng. Dept.: F. Mikuma. Dir. Tech. Operation Dept.: H. Goto. Dir. Tec. Research Lab.: S. Shima. Chief of News Comentator's Room: G. Fujita. Man. Dir.'s: A. Takano, S. Tochizawa.

STATIONS:

MEDIUM WAVES: The medium-wave (535–1650 kc/s) tr's are used for domestic radio service in the 1st and 2nd networks, both extensive enough to place the entire country under coverage. Call: JO - -

Stations	Call	kc/s	kW	Stations	Call	kc/s	kW
Tokyo 1	AK	590	100	Kamioka	–	1340	0.05
— 2	AB	690	100	Gujo-Hachiman	–	1340	0.05
Nagano 1	NK	1320	1	**Hiroshima 1**	FK	770	10
— 2	NB	1530	1	— 2	FB	1050	10
Niigata 1	QK	850	10	Okyama 1	KK	720	1
— 2	QB	990	10	— 2	KB	1600	1
Kofu 1	KG	620	1	Matsue 1	TK	1110	10
— 2	KC	1470	0.5	— 2	TB	1330	10
Matsumoto 1	SG	540	1	Tottori 1	LG	1300	1
— 2	SC	1510	1	— 2	LC	1530	1
Iida 1	SQ	1320	0.5	Onomichi	DP	1200	1
— 2	SZ	1530	0.5	— 2	DD	1530	1
Ina 1	–	1340	0.05	Hofu	UG	680	5
— 2	–	1540	0.05	— 2	UC	820	5
Komoro 1	NQ	1040	0.05	Hamada 1	–	1040	0.1
— 2	NZ	1540	0.05	— 2	–	1360	0.1
Takata 1	OX	1160	0.1	Hagi 1	UQ	960	1
Takata 2	QV	1360	0.1	— 2	UZ	1600	0.5
Okaya-Suwa 1	SU	1160	0.1	Masuda 1	–	1340	0.1
— 2	SI	1360	0.1	— 2	–	1540	0.1
Kiso-				Tsuyama 1	KU	1160	0.1
Fukushima 1	–	1040	0.1	— 2	KT	1540	0.1
— 2	–	1470	0.1	Shobara 1	–	1160	0.05
Ueda 1	–	1340	0.1	— 2		1360	0.05
— 2	–	1470	0.1	Yonago 1	LQ	1200	1
Fujiyoshida 1	YP	1340	0.1	— 2	LU	1470	1
Osaka 1	BK	670	100	Tsuwano 1	–	1160	0.1
— 2	BB	830	100	— 2	–	1360	0.1
Kyoto 1	OK	1300	1	Kurayoshi 1	–	1040	0.1
— 2	OB	1510	1	— 2	–	1360	0.1
Fukuchiyama 1	OT	1040	0.1	Shimonoseki 1	UT	1160	0.1
— 2	OS	1360	0.1	Niimi 1	KI	1340	0.1
Toyooka 1	BU	1160	0.1	— 2	–	1540	0.1
— 2	BV	1540	0.1	Miyoshi	–	1440	0.1
Hikone 1	BS	1340	0.1	Iwami 1	–	1340	0.05
Shingu 1	BQ	1040	0.05	Kawamoto 1	–	1300	0.05
— 2	BY	1360	0.05	**Kumamoto 1**	GK	930	10
Maizuru 1	OQ	1340	0.1	— 2	GB	1350	10
— 2	OZ	1540	0.1	Fukuoka 1	LK	610	100
Tanabe 1	BT	1160	0.1	— 2	LB	870	100
— 2	TD	1540	0.1	Kokura 1	SK	1320	0.1
Koza	–	1340	0.05	— 2	SB	1530	0.1
Nagoya 1	CK	730	10	Nagasaki 1	AG	660	1
— 2	CB	910	10	— 2	AC	1600	1
Kanazawa 1	JK	1030	10	Kagoshima 1	HG	980	10
— 2	JB	1460	10	— 2	HC	1390	10
Shizuoka 1	PK	880	10	Miyazaki 1	MG	620	1
— 2	PB	1230	10	— 2	MC	790	0.
Fukui 1	FG	600	1	Oita 1	IP	660	1
— 2	FC	1530	1	— 2	ID	790	0.5
Hamamatsu 1	DG	620	1	Saga 1	SP	960	0.5
— 2	DC	790	1	— 2	SD	1470	0.5
Toyama 1	IG	600	1	Sasebo 1	AT	540	0.5
— 2	IC	1530	1	— 2	AY	790	0.5
Takayama 1	CQ	620	1	Hitoyoshi 1	–	1320	0.1
— 2	CZ	790	0.5	— 2	–	1600	0.1
Ueno 1	CT	1160	0.1	Nobeoka 1	MT	540	1
Owase 1	CU	1160	0.1	— 2	MX	1470	1
— 2	DS	1540	0.1	Saeki 1	–	1160	0.05
Tsuruga 1	FT	1040	0.05	— 2	–	1510	0.05
— 2	FZ	1470	0.05	Miyakonoja 1	MQ	1160	0.1
Obama 1	FY	1160	0.1	— 2	–	1360	0.1
— 2	FQ	1360	0.1	Hita 1	IV	1040	0.05
Toyohashi 1	CS	1160	0.1	Karatsu 1	SV	1160	0.05
— 2	CV	1360	0.1	Akune 1	–	1040	0.1
Nanao 1	JU	1340	0.1	— 2	–	1470	0.1
— 2	–	1600	0.1	Kobayashi 1	–	1040	0.1
Nakatsug. 1	–	1160	0.1	— 2	–	1540	0.1
Katsuyama	–	1160	0.1	Nitinan 1	–	1340	0.1
Wajima	–	1160	0.05	Takachicho 1	–	1040	0.1

Stations	Call	kc/s	kW	Stations	Call	kc/s	kW
Kushima 1	–	1040	0.05	Asahikawa 1	CG	620	1
Sendai 1	HK	890	10	— 2	CC	1470	0.5
— 2	HB	1090	10	Obihiro 1	OG	780	1
Akita 1	UK	1290	10	— 2	OC	1080	0.5
— 2	UB	1520	10	Kushiro 1	PG	840	1
Yamagata 1	JG	540	1	— 2	PC	1240	1
— 2	JC	1470	1	Kitami 1	KP	700	10
Hirosaki 1	RG	1440	0.5	— 2	KD	1260	10
— 2	RC	790	0.5	Muroran 1	IU	780	1
Morioka 1	QG	650	10	— 2	IT	1080	0.5
— 2	QC	1170	10	Rumoi 1	IX	600	0.05
Fukushima 1	FP	620	0.1	— 2	CI	1080	0.05
— 2	FD	790	0.1	Wakkanai 1	IQ	1200	1
Kooriyama 1	CP	660	1	— 2	IY	1470	0.5
— 2	CD	1510	1	Esashi	–	1040	0.05
Aomori 1	TG	960	1	— 2	–	1360	0.05
— 2	TC	1510	0.5	Nayoro 1	CY	540	1
Tsuruoka 1	JP	660	1	— 2	AZ	790	1
— 2	JD	1470	0.5	Nemuro 1	PQ	1040	0.1
Kamaishi 1	–	1200	0.1	— 2	–	1360	0.1
— 2	–	1470	0.1	Nakashibetsu 1	–	1160	0.1
Taira 1	HQ	1040	0.1	Urakawa 1	–	1340	0.1
— 2	HZ	1540	0.1	Kariba 1	–	1160	0.1
Hachinohe 1	TQ	1300	1	**Matsuyama 1**	ZK	960	1
— 2	TZ	1530	1	— 2	ZB	1510	1
Wakamatsu 1	HT	1160	0.1	Kochi 1	RK	1150	10
— 2	HY	1540	0.1	— 2	RB	1430	10
Odate 1	–	1160	0.1	Tokushima 1	XK	780	1
— 2	–	1360	0.1	— 2	XB	1530	1
Miyako 1	–	1040	0.05	Takamatsu 1	HP	1300	1
— 2	–	1360	0.05	— 2	HD	1080	0.5
Yonezawa 1	JQ	1040	0.05	Uwajima 1	ZU	1440	0.05
— 2	JZ	1360	0.05	— 2	ZY	1080	0.05
Yokote 1	–	1040	0.1	Niihama 1	ZQ	1340	0.1
— 2	–	1540	0.1	— 2	ZZ	1540	0.1
Shinjo 1	JS	1340	0.05	Imabari 1	ZT	1160	0.05
— 2	JT	1540	0.05	Nakamura 1	RQ	1200	1
Kesennuma 1	–	1160	0.1	— 2	RY	1530	0.5
— 2	–	1540	0.1	Yawatahama 1	ZS	1340	0.05
Ofunato 1	–	1040	0.1	— 2	ZI	1540	0.05
— 2	–	1360	0.1	Yusuhara 1	RS	1160	0.1
Soma-				Johen 1	ZV	1340	0.05
Haramachi 1	–	1160	0.1	— 2	–	1540	0.05
Kuji	–	1340	0.1	Ikeda 1	XI	1160	0.1
Sapporo 1	IK	570	100	— 2	–	1360	0.1
— 2	IB	750	100	Kanonji 1	–	1040	0.1
Hakodate 1	VK	600	1	Muki 1	–	1040	0.1
— 2	VB	1470	0.5	Uwa 1	–	1040	0.05

HOME SERVICE:

1st Network: D. 20.00–15.00. **Japanese Music:** Tues. 11.30–11.59, Thurs. 13.30–14.00. – N.: D. 14.57. W. every h. on the h. exc. 11.00, and also every h. at half past between 23.00–10.00, exc. 03.30 (W), 04.30 (Mo.), 05.30 (Sat.), 06.30 (Sat.), 09.30 (Sat.). Mo.–Fri. 10.59. Sun. every h. on the h. exc. 01.00, 02.00, 05.00, 09.00, 11.00. – **Comm.:** W. 02.05, 14.10. Mo.–Fri. 12.10. Sat. & Sun. 12.08. – **Mbg.:** W. 21.50. – **Wrp.:** D. 20.57, 21.10, 22.10, 23.59, 02.50, 03.10, 06.05, 08.05, 10.10, 12.05, 13.05, 14.05. Sun. 09.55. – **Weather Map.:** D. 07.05.

2nd Network: D. 20.30–15.00. – **Japanese Music:** Mo.–Fri. 04.25–05.00, Fri. 12.00–13.00, Sat. 10.00–10.30, Sun. 14.00–14.30. – **Weather Map.:** D. 13.00, 00.00. – **English N.:** W. 09.00–09.05.

The two networks together are on the air for a grand total of 37.5 h's*. – School prgr's are specially presented over the 2nd network for 3 h's and 25 min.s between 00.00–05.00.

* Classified by broadcasting h's (%): N. 18.3, Social & Culture 39.3, Education 18.5, Entertainment 16.7, Sports 7.2.

FM: JOAK-FMX Tokyo 87.3 mc/s, JOBK-FMX Osaka 88.1 mc/s 1 kW exp.: W.: 09.00–13.00. Sun.: 00.00–02.00, 04.00–13.00.

HOME SERVICE RELAYS ON SHORTWAVES:

1st Network: JKH 7230kc/s 41.49m: 20.00–22.15, 07.55–10.00
JKH2 9655 kc/s 31.07 m: 22.25–07.45.
2nd Network: JKI 7285 kc/s 41.18 m: 20.30–10.00.

FOREIGN SERVICE (R. Japan)

I=South Asian Sce. II=Middle East Sce. III=European Sce. IV=North American Sce. V=Latin America Sce. VI=No. American & Hawaiian Sce. VII=Australian & New Zealand Sce. VIII=East Asian Sce. IX=Asian Continent Sce. X=Philippine & Indonesian Sce. XI=Korean Sce. XII=Southeast Asian Sce. XIII=General Sce.

STATIONS: 10/20/50/100 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
6080	49.34	9695	30.94	11780	25.47	15115	19.85	17795	16.86
9505	31.56	11705	25.63	11800	25.42	15135	19.82	17825	16.83
9525	31.50	11725	25.58	11815	25.39	15235	19.69	17855	16.80
9675	31.01							21610	13.88

Japan

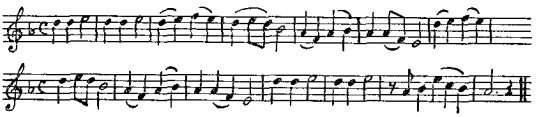
Time	Sce.	kc/s	Languages
15.00–16.30	I	6080, 9525, 11800	Hindi, English, Urdu, Japanese
16.45–18.45	II	6080, 9525, 11800	Arabic, French, English, Japanese
19.00–21.00	III	6080, 9525, 11800	Russian, German, French, Italian, English, Japanese Swedish
00.30–01.30	IV	11800, 15135, 17855	English, Japanese
03.00–04.00	V	11800, 15135, 17855	Spanish, Japanese
05.00–07.00	VI	6080, 11800, 15235, 17825	English, Japanese
07.30–08.30	III	15135, 17795, 21610	English, Japanese
09.00–10.30	V	11705, 15115	Portuguese, Japanese, Spanish
09.30–10.30	VII	11725, 15235	English, Japanese
10.00–12.30	VIII	11800	Japanese
10.45–12.45	IX	9675, 11705	Chinese, Russian, English, Japanese
11.30–13.00	X	11780, 15135, 17795	English, Indonesian
13.00–14.00	XI	6080	Korean, Japanese
13.00–16.00	XII	9675, 11705	Chinese, French, Thai, English, Japanese
00.00–00.30	XIII	15115, 15235. 17795	English, Japanese
02.00–02.30	XIII	11780, 15115, 15235	English, Japanese
04.00–04.30	XIII		
06.00–07.00	XIII	11780, 11815, 17855	English, Japanese
08.00–08.30	XIII		
09.00–09.30	XIII	9505, 11815, 17855	English, Japanese
10.00–10.30	XIII		
11.00–11.30	XIII		
12.00–12.30	XIII	9505, 9695, 11815	English, Japanese
13.00–14.00	XIII	9505, 9695, 11815	English, Japanese

NEWS: English: 15.25 (I), 17.40 (II), 20. 25 (III), 00.30 (IV), 05.00 (VI), 07.30 (III), 09.30 (VII), 12.20 (IX), 11.30 (X), 14.35 (XII) and at the beginning of each transmission in the General Service. – **French:** 17.15 (II), 20.00 (III), 14.10 (XII). – **German:** 19.30 (III). – **Italian:** 20.10 (Sun.) (III). – **Portuguese:** 09.00 (V). – **Spanish:** 03.00 & 10.20 (V). – **Swedish:** 20.35 (Wed.) (III).

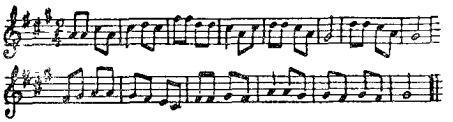
DX-PROGRAMME (in English): Every 3rd and 5th Sat./Sun. of the month as follows: Sat. 06.00 (VI), 08.05 (III), 10.15 (VII), 12.15 (X), 15.15 (XII), 18.25 (II). Sun. 01.15 (IV).

ANN.: Home Service: The call-sign and the station name are announced at the commencement and end of each transmission. At intervals between programmes, an announcement, "NHK" is made. – On the 1st network, the call-sign and the station name are announced just before timecast. – On the 2nd network, the call-sign and the station name are announced every hour at half past. – **Foreign Service: English:** "This is Radio Japan, the overseas broadcasting service of NHK. We are broadcasting to... ("target area".) – **French:** "Ici Radio Japon... (target area)". – **German:** "Hier ist Tokyo, der japanische Rundfunk... (target area)". – **Italian:** "Buon giorno, sign. radioascoltatori Italiani. Qui Radio Giappone – Reparto Servizio Internazionale di NHK...". – **Spanish:** "Aqui Radio Japon...". – **Portuguese:** "Estão ouvindo a Radio Japão...". – **Indonesian:** "Inilah Radio Djepang, siaran international dari NHK di Tokio...".

INT.-SIG.: Home Service: Both on the 1st and the 2nd networks, a musical sign is beamed on a celeste before commencing broadcasting. No interval signal is used since both the 1st and the 2nd networks are continuously on the air. – **Foreign Service:** Opening music "Sakura":



Interva signal music "Kazoe Uta":



WITH THE NEWS AND VIEWS OF THE FAR EAST

RADIO JAPAN

NHK's International Broadcasting Service

TARGET AREA:

South Asia
Middle East
North America
Latin America
North America & Hawaii
Europe
Australia & New Zealand
East Asia
Asian Continent
Phillippine & Indonesia
Korea
Southeast Asia
General Service

NATIONAL NETWORKS

Radio Stations: 1st Net 131, 2nd Net 103
Television Stations: General 55, Educational 5

NHK

N H K (Japan Broadcasting Corporation)
No. 2, 2-chome, Uchisaiwai-cho, Chiyoda-ku, Tokyo, Japan

PUB.: Graph NHK (twice a month) – NHK Hoso Bunka or NHK Broadcast Culture (monthly) – Broadcast Engineering (monthly) – NHK Technical Journal (quarterly) – NHK Year Book (annual) – Prgr.schedules are published annually in April, when the schedules are revised. The language used is Japanese – The prgr.sched. Overseas Sce. is published every time the prgr.s are changed. The Foreign Sce. sched. is distributed upon request. No return postage required. – V. by QSL-card.

THE NATIONAL ASSOCIATION OF COMMERCIAL BROADCASTERS IN JAPAN

ADDR.: 8-7 Ginza-Nishi, Chuo-ku, Tokyo. **Cable:** "Kyobashi Mimporen. **Te.:** 571–7161. – **L.P.:** Pres.: T. Adachi. Vice-Pres.: Y. Akao, T. Tsukifuji. Dir. Mgr.: S. Sakai. Sec. Gen.: Y. Isomura.

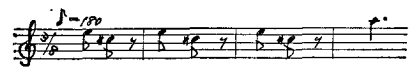
Medium Waves: Call: JO...

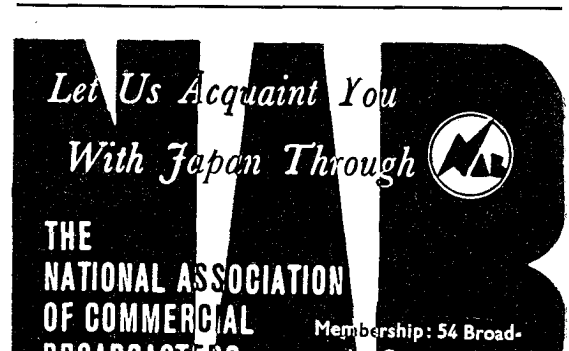
	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
1)	DF	580	1	26)	NR	1010	20	21)	UR	1220	3
2)	JF	740	1	1)	DL	1060	0.1	21)	7B	1220	0.02
3)	LR	740	3	1)	DM	1060	0.1	30)	JR	1250	10
4)	MR	760	3	2)	JL	1060	0.1	32)	FR	1270	10
5)	CF	760	5	4)	MO	1060	0.1	18)	HW	1280	1
6)	TO	800	0.1	7)	WR	1060	0.1	31)	JR	1280	3
7)	WE	800	0.1	8)	SW	1060	0.1	38)	LF	1310	50
7)	WW	800	0.1	10)	BW	1060	0.1	34)	ER	1370	10
8)	SL	800	0.1	11)	YE	1060	0.1	39)	UF	1380	20
8)	SE	800	0.1	15)	HL	1060	0.1	18)	TL	1400	1
9)	DE	800	0.1	18)	QN	1060	0.1	29)	VR	1400	3
10)	BO	800	0.1	20)	EL	1060	0.1	13)	IF	1410	10
11)	YO	800	0.1	22)	–	1060	0.1	11)	YR	1420	3
12)	AL	800	0.1	23)	PL	1060	0.1	18)	QL	1420	1
13)	IL	800	0.1	27)	GO	1060	0.1	18)	QM	1450	3
13)	IM	800	0.04	27)	GE	1060	0.1	41)	KF	1450	3
14)	OL	800	0.1	28)	AO	1060	0.1	40)	RF	1480	10
15)	HM	800	0.1	29)	VO	1060	0.1	14)	SF	1490	10
16)	ZO	800	0.1	30)	IO	1060	0.1	17)	VF	1500	1
17)	VL	800	0.1	31)	JO	1060	0.1	18)	QF	1500	1
8)	SO	860	1	32)	FE	1060	0.04	5)	CL	1560	0.1
18)	HE	860	1	32)	FO	1060	0.1	6)	TE	1560	0.2
19)	PR	860	1	33)	–	1060	0.1	9)	DO	1560	0.1
15)	HF	900	3	34)	EO	1060	0.1	10)	BE	1560	0.1
16)	ZR	900	3	28)	AR	1070	10	12)	AM	1560	0.1
18)	HO	900	1	8)	SR	1100	1	14)	XO	1560	0.1
20)	EF	920	3	33)	BF	1100	5	17)	VM	1560	0.1
21)	MF	920	1	12)	AF	1120	3	19)	PO	1560	0.1
22)	NF	920	1	27)	GR	1120	3	21)	UO	1560	0.1
23)	PM	920	0.1	35)	CR	1120	10	22)	–	1560	0.1
6)	TR	940	1	36)	QR	1130	50	25)	GL	1560	0.1
23)	PF	940	3	10)	BR	1140	10	28)	–	1560	0.05
24)	KR	950	50	18)	HR	1190	10	29)	VE	1560	0.1
7)	WO	1000	1	37)	OR	1210	20	41)	KL	1560	0.1
25)	GF	1000	1	9)	DR	1220	3				

Short Waves:

	Call	kc/s	m	kW		Call	kc/s	m	kW
42)	Z	3925	76.43	10	42)	Z2	6055	49.55	10
					42)	Z3	9595	31.27	10

1) **Iwate Broadc. Co.**, Morioka. – **L.P.:** Pres.: T. Ota.
2) **R. Yamanashi Broadc. Co.**, 288 Hyakukoku-machi, Kofu City. – **D.PRGR.:** 20.30–15.00.
3) **Kita-Nihon Broadc. Co.**, Toyama. – **L.P.:** Pres.: S. Yokoyama.
4) **Hokuriku Broadc. Co.**, Kanazawa. – **L.P.:** Pres.: H. Saga.
5) **R. Minami-Nihon**, 17 Kohai-cho, Kagoshima. – **L.P.:** Pres.: S. Hatanaka. Mgr.: K. Ijuin. Dir. Tec.: H. Yamamoto. – **D.PRGR.:** 20.30–14.30. – V. by QSL-card.
6) **R. Tohoku Broadc. Co.**, 14, Akita. – **L.P.:** Pres.: Y. Takehana.
7) **R. Fukushima Broadc. Co.**, Fukushima. – **L.P.:** T. Tobishima.
8) **Shin-Etsu Broadc. Co.**, Nagano. – **L.P.:** Pres.: J. Katsuta.
9) **R. Niigata**, Niigata. – **L.P.:** Pres.: K. Sakaguchi.
10) **Kyoto Broadc. Co.**, Nakakyo-ku, Kyoto. Pres.: K. Shinaishi.
11) **Sanyo Broadc. Co.**, Okayama. – **L.P.:** Pres.: H. Taniguchi.
12) **Nankai Broadc. Co.**, Matsuyama. – **L.P.:** Pres.: Y. Yamanaka.
13) **Kyushu Asahi Broadc. Co.**, Fukuoka. – **L.P.:** Pres.: I. Dan.
14) **Tokai R. Broadc. Co.**, Nagoya. – **L.P.:** Pres.: M. Abo.
15) **R. San-In Broadc. Co.**, Yonago. – **L.P.:** Pres.: O. Oda.
16) **R. Kochi Broadc. Co.**, Kochi. – **L.P.:** Pres.: J. Hara.
17) **Wakayama Broadc. Corp.**, Wakayama. – **L.P.:** Pres.: K. Maeda.
18) **Hokkaido Broadc. Co.**, Sapporo, Hokkaido. – **L.P.:** Pres. S. Abe.
19) **Fukui Broadc. Co.**, Fukui. – **L.P.:** Pres.: S. Kato.
20) **Yamagata Broadc. Co.**, Yamagata. – **L.P.:** Pres.: Y. Hattori.
21) **Nagasaki Broadc. Co., Ltd.**, Nagasaki. – **L.P.:** Pres.: E. Nakabe.
22) **R. Miyazaki Broadc. Co.**, 858 Shimo-Kitakata-machi, Miyazaki.
23) **R. Yamaguchi Broadc. Co.**, Tokuyama. – **L.P.:** Pres.: J. Noctuchi.
24) **R. Tokyo. FI.:** By advertisements. – **ADDR.:** Main Office, 36 Akasaka, Hitotsugicho, Minatoku, Tokyo. Studio: Yuraka-cho, Chiyodaku, Tokyo. **Cable:** "JOKRTOKYO". **Te.:** 201–0531. – **L.P.:** Chairman: T. Adachi. Pres.: K. Shikakura. Dir. Gen.: Y. Tanaka, J. Imamichi. Dir. Tec.: K. Endo. Dir. Prgr.: Z. Mitsuda. – **D.PRGR.:** 20.00–16.20. **Folklore Music:** W. 09.55; Sun., Mo. 12.55; Thurs. 05.05; Fri. 03.30, 12.10, 13.15; Sun. 09.15, 13.15. – **N.:** 5 min. every h. exc. 01.00, 11.00, 15.00. – **Rel.:** Sat. 21.25, Sun. 02.30, 21.15, 21.30. – **ANN.:** "JOKR Kochirawa Radio Tokyo desu". E.: "JOKR This is Radio Tokyo". – **V.:** By QSL-card.
25) **Oita Broadc. Service**, 1–491 Takamatsu, Oita.
26) **Asahi Broadc. Co.**, New Asahi Bldg., Nakanoshima, Kitaku, Osaka. Tokyo Branch Office: New Asahi Shimbun Bldg., Yurakucho, Chiyodaku, Tokyo. – **L.P.:** Chairman, Board of Dir.: M. Iijima. Pres.: K. Suzuki. Vice Pres.: T. Hirai. Dir. Sales: T. Tateishi. Dir. Prgr.: K. Hara. Dir. Tec.: K. Kusama. Chief Eng.: K. Endo. Mgr. Tokyo Office: M. Kobayashi. – **D.PRGR.:** 20.00–17.00. – **N.:** W.: 20.50, 21.50, 22.50, 00.50, 01.50, 02.50, 03.50, 04.50, 05.50, 06.50, 07.50, 08.50, 09.50, 12.50, 13.50. Sun.: 20.50, 21.50, 22.50, 00.50, 06.50, 09.50, 12.50, 13.50. – **ANN.:** "ABC Asahi Hoso, JONR". – **V.** by QSL-card. – **PUB.:** "Radio and TV Asahi", monthly.
27) **R. Aomori Broadc. Co.**, Aomori. – **L.P.:** Pres.: S. Takeuchi.
28) **Chubu Nippon Broadc. Co.**, Shinsakae-machi, Nagoya. – **L.P.:** Pres.: K. Sasaki. **D. PRGR.:** N. 03.00, 08.50, 12.45. – V. by QSL-card. – **PUB.:** Prgr.sched. free on request.
29) **R. Shizuoka**, Shizuoka. – **L.P.:** Pres.: Y. Komuratani.
30) **Tohoku Broadc. Co.**, Sendai. – **L.P.:** Pres.: K. Sasaki.
31) **Shikoku Broadc. Co.**, Tokushima. – **L.P.:** Pres.: S. Maekawa.
32) **RKB Mainichi Broadc. Co.**, Fukuoka. – **L.P.:** Dir. Gen.: M. Yamawaki, Mgr.: H. Kaneko. Dir. Tec.: K. Kimoto. Dir. For. Rel.: S. Yamada. – **D.PRGR.:** 20.45–15.45. – **V.** by QSL-card. – **F.PL.:** JOFR 100 kW, 2 FM st's. – **PUB.:** Prgr.sched. free on request.
33) **R. Kumamoto Broadc. Co.**, Kumamoto. – **L.P.:** Pres.: R. Fukami.
34) **R. Chugoku Broadc. Co.**, 68, Kamiyanagi-cho, Hiroshima.
35) **R. Kansai, Ltd.**, 3–7 Isonare-cho, Kobe. – **L.P.:** Pres. K. Tanaka. **D.Prgr.:** 20.30–16.00. **V.** by QSL-card.
36) **Nippon Cultural Broadc. Inc.**, Shinjuku, Tokyo. – **L.P.:** Chairman: K. Shibusawa. Pres.: S. Mizuno. Mgr. S. Tomoda. M. Aoki. K. Sugawaha. – **D.PRGR.:** 20.00–16.30. **N., Wrp.:** 20.55, 21.50, 22.50, 23.55, 00.55, 01.55, 04.55, 05.55, 07.55, 09.30, 15.00. **English-Japanese lessons: D.** 14.00–14.30. – **ANN.:** "Bunkahoso JOQR". – **V.** by QSL-card.
37) **Mainichi Broadc. System**, Funadaiku-cho, Kita-ku, Osaka. – **L.P.:** Pres.: M. Sugi. Exec. Dir.: S. Takahashi. Dir. Tec.: Y. Takashima. – **D.PRGR.:** 20.30–15.30. **N., Wrp.:** Every h. on the h. exc. 22.00, 10.00, 11.00. – **V.** by QSL-card. – **PUB.:** "MBS Club", "CM Kenkyu". Prgr.sched. free. – **F.PL.:** 100 kW, 2 FM, 3 rel.st's.
38) **Nippon Broadc. System**, 7 1-chome Yurakucho, Chiyodaku, Tokyo. – **L.P.:** Chairman: H. Inagaki. Pres.: K. Uemura. Man. Dir.: N. Shinkanai. Dir. Tec.: S. Hase.
D.PRGR.: 20.00–16.45. – **N.,** Wrp.: 20.30, 21.30, 22.30, 00.30, 02.30, 03.30, 06.30, 14.00, 15.30. **Comm.:** 14.30. **Wrp.:** After N. – **Nat. Music:** Sat., Sun. 14.00. Wed. 06.00. Thurs., Fri. 13.15. – **ANN.:** "JOLF, Nippon Hoso desu" ("This is Nippon Hoso"). – **INT.-SIG** (Time Signal):





V. by QSL-card. R.p. – PUB.: Prgr.sched. free on reguest.
39) Osaka Broadc. Co., Sankei Bldg. 27 Umeda-cho, Kita-ku, Osaka.
40) R. Kanto, 19 Oimatsu-cho, Nishi-ku, Yokohama. – L.P.: Pres.: T. Isono.
41) Nishi-Nippon Broadc. Co., Ltd., Takamatsu. – L.P.: Pres.: J. Hirai.
42) Nihon Short-Wave Broadc. Co., Ltd., 3, 7-chome, Tanachi, Akasaka, Minato-ku, Tokyo. – L.P.: Pres.: S. Odajima. Mgr.: Z. Takano. Dir. Tec.: S. Ito.

D.PRGR.: 20.45–15.45. – N.: 03.30, 08.30, 14.30, 23.30. – Wrp.: 07.20, 14.40, 20.45. – DX-Prgr. in Japanese: Sun. 15.25–15.45. Dx No. shiori: Tucs., Fri. 07.15–07.18. – English Lesson: Sun. 00.00–03.00. – ANN.: "Nihon Tampa Hoso desu". – INT.-SIG.: Slow tempo chime with Japanese Musical instrument "Koto" at sign on and sign off. – V. by QSL-card. Inland listeners rep's at least 1 h. prgr. reception data in total. – F. PL.: 50 kW. – PUB.: "Tampa Techo" monthly. Prgr.sched. free on request.

VOICE OF UNITED NATIONS COMMAND (V.U.N.C.)

FL.: by state (United Nations Command, Korea).
ADDR.: U.S.Army Broadcast and Visual Activity, Pacific, APO 331, San Francisco, Cal., USA. – L.P.: Chief R. Division: E. Masters.

FOREIGN SERVICE in Cantonese, Mandarin, Korean:
VUNC Korean Network (Seoul): 07.30–02.00.

760 kc/s	395.0 m	5 kW	2405 kc/s	124.7 m	0.3 kW
1220 –	246.0 –	5 –	3985 –	75.28 –	0.3 –

Korean: 10.30–14.30, 16.30–17.30, 21.00–24.00. – Mandarin: 17.30–19.00. – Music: 07.30–0.830 (English), 08.30–10.30, 14.30–16.30, 19.00–21.00, 00.00–02.00.

VUNC Japan Network (Totsuka): 11.00–21.00.

6015 kc/s	49.88 m	5 kW	9560 kc/s	31.38 m	5 kW
7270 –	41.27 –	3 –	11890 –	25.23 –	3 –

Korean: 11.00–12.30, 14.30–17.30, 19.30–21.00. – Mandarin: 12.30–14.30, 17.30–19.00. – Cantonese: 19.00–19.30.
KBS Network II: 13.00–14.30 (Korean only).

Seoul	970 kc/s	309.0 m	100 kW:	13.00–14.30
Seoul	6035 –	49.71 –	2 – :	13.00–14.30
Seoul	9640 –	31.12 –	50 – :	13.00–13.30

ANN.: E.: "Voice of the U.N. Command". – V. by QSL-card.

FAR EAST NETWORK (AFRTS)

The network serves the members of the United States Forces serving in the Far East.
ADDR.: Headquarters, Far East Network, APO 99, San Francisco.
Authority: The stations of the FEN in Japan broadcast by authority of the Commander, U.S. Forces, Japan in cooperation with the Japanese Radio, Regulatory Board. Stations are linked by land line, and operate 24 h. d.
Medium Waves: FEN...

Name	kc/s	kW		kc/s	kW		kc/s	kW
Tokyo	810	10	Chitose	1570	0.25	Iwakuni	1580	1
Iwo Jima	1500	0.1	Misawa	1580	0.25	Wakkanai	1590	0.1
Itazuke	1550	2.5						

Short Waves: Relay Tokyo for Korea/Okinawa:
3800 kc/s 78.95 m 0.1 kW – 11750 kc/s 25.53 m 10 kW
6160 kc/s 48.70 m 10/1 kW [1]) – 15257 kc/s 19.66 m 1/10 kW [2])
[1]) Night 10, Day 1 kW. [2]) Night 1, Day 10 kW.

ANN.: Local station identification is "Serving American Forces Overseas. This is the Far East Network... Far East Network, Tokyo (Nagoya, Itazuke etc.)". Shortwave tr.'s include their frequency. V. by QSL-card.

朝日放送
ASA HI HO SO
LISTEN TO
ABC
Japan's Voice of Time
ASAHI BROADCASTING COMPANY
Head Office : Nakanoshima, Kitaku, Osaka.
Branch Office : Yurakucho, Chiyodaku, Tokyo.
JONR ——1010KC —10KW
JONR-TV——CHANNEL 6—10KW

★ KOREA (Peoples Democratic Republic) ★

L.T.: GMT+8½ h. (Su. 9½ h.). – Pr.L.: Korean. – Po.: 15.000.000. – Revrs.: 600.000. – E.C.: 100/200 V., A.C., 50 c/s.
ADDR.: Korean Central Broadcasting Committee, Pyongyang.

STATIONS: Medium Waves:

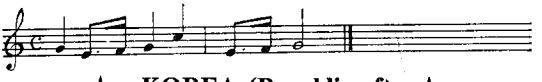
kc/s	m	kc/s	m	kc/s	m	kc/s	m
785	382	820	365	1050	285	1080	278

Short Waves:
2850 kc/s 105.3 m – 6195 kc/s 48.43 m – 6250 kc/s 48.00m

HOME SCE. in Korean: 1st Prgr.: 20.00–17.00 on 785/2850/6195 kc/s. 2nd Prgr.: 20.00–17.00 on 820/1080/6250 kc/s.

FOREIGN SCE. on 820/1050/1080/6250 kc/s: Chinese: 10.00–10.30. – English: 23.00–23.30, 13.30–14.00. – Esperanto (Wed. only): 11.00–11.30. – Japanese: 22.00–22.30, 13.00–13.30. – Korean (for Koreans in Japan): 22.30–23.00.

ANN.: English: "This is the Korean Central Broadcasting Station, Pyongyang". – V. by letter.
INT.-SIG.:



★ KOREA (Republic of) ★

L.T.: GMT+8½ h. (Su. 9½ h., 4/5–20/9). – Pr.L.: Korean. – Po.: 22.303.000. – Revrs.: 351.000. – E.C.: 110/220 V., A.C., 60 c/s.

THE KOREAN BROADCASTING SYSTEM (Go.)

ADDR.: Bureau of Broadc. Management, Office of Public Information, Seoul. – L.P.: Dir. Gen.: K. I. Lee. Mgr.: O. Y. Lee. Dir. Prgr.: J. P. Noh. Dir. Adm.: J. Y. Kim. Dir. Tec.: J. H. Lee.

STATIONS:

Call	kc/s	m	kW	Call	kc/s	m	kW
HLK50	2510	119.5	10	HLK6	11925	25.17	50
HLK51	3910	76.73	4	HLK41	15125	19.83	50
HLK2	5980	50.17	10	HLK7	15255	19.66	50
HLK52	6035	49.71	3	HLK8	15410	19.47	50
HLK4	7180	41.78	10	HLK42	17890	16.77	50
HLK5	9640	31.12	50	HLK19	17895	16.76	50

Medium Waves. ° Short Wave.

Name	Call	kc/s	kW	Name	Call	kc/s	kW
Jongjoo	HLKF	570	5	Chongjoo	HLKQ	920	1
Kangneung	HLKR	600	5	Seoul	HLKA	°970	100
Mokpo	HLKN	650	0.5	Sokcho	–	1000	0.3
Masan	HLKD	650	1	Namwon	HLKL	1030	0.25
Seoul	HLKA	°710	100	Jejoo	HLKS	1080	0.5
Taegu	HLKG	740	10	Chumchon	HLKM	1360	1
Kwangjoo	HLKH	760	1	Yeosoo	–	1360	0.25
Pusan	HLKB	820	10	Pohang	–	1420	0.25
Taejon	HLKI	880	10				

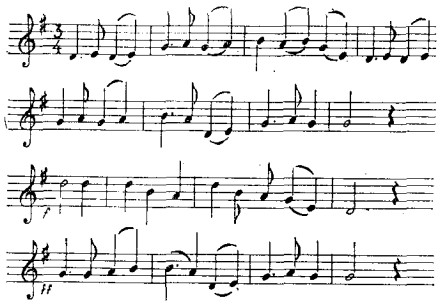
FM: Suwon: 44.3 mc/s 0.25 kW, 44.5 mc/s 0.25 kW – Jeongdong: 48.3 mc/s 0.06 kW, 46.1 mc/s 0.06 kW, 49.6 mc/s 0.25 kW – Namsan: 44.1 mc/s 0.06 kW, 44.9 mc/s 0.06 kW, 45.3 mc/s 0.06 kW, 46.3 mc/s 0.25 kW, 102.6 mc/s 0.06 kW.

HOME SERVICE:
1st Prgr. (Korean): 20.30–16.30.
2nd Prgr. (Korean, Chinese): 20.30–16.30. Chinese: 15.00–15.30, 16.15–16.30. – Red China Armed Forces Hour: 16.15–16.30.

FOREIGN SERVICE:
I=to No. America; II=to Hawaii; III=General Overseas Service; IV=to Japan; V=to So. Ea. Asia; VI=to Europe. E=English; F=French; K=Korean; J=Japanese.

Times	kc/s	Areas	Languages
05.30–06.30	11925/15125	I	E 05.30, K 06.00
07.30–08.30	15125	II	E 07.30, K 08.00
09.30–10.00	970, 6035, 9640	III	E
13.00–13.45	970, 9640	IV	J 13.00, K 13.30
14.00–15.00	17890	V	E 14.00, F 14.30 K 14.55
14.30–15.30	11925	I	E 14.30, K 15.00
16.00–17.00	11925	II	E 16.00, K 16.30
22.00–23.00	11925	VI	E 22.00, F 22.30 K 22.55

ANN.: Home Sce.: Every 30 min. Korean: "Seoul Chungang Bang-song-guk Imnida HLKA" (Seoul Key Station HLKA). After each short prgr.: KBS (kei bi es). – **Foreign Sce.: E.:** "This is the Voice of Free Korea, Korean Broadcasting System".
INT.-SIG.: Foreign Sce.: Korean folk music



V. by QSL-card. – **F.PL.:** 500 kW m.w. st., Pusan 50 kW. – **PUB.:** Prgr. schedule free upon request. Radio and TV (monthly). Broadcasting (weekly).

AMERICAN FORCES KOREAN NETWORK (Go.)

ADDR.: Headquarters, United States Element, American Forces Korean Network, APO 301, S. Francisco, Calif., USA.
STATIONS: Medium Waves: see USA.
ANN.: "This is the AFKN, American Forces Korean Network". – **V.** by letter. R.p.

RADIO STATION HLKX (Religious, Educational)

Operated by the Evangelical Alliance Mission, 2845 W McLean Av., Chicago. **FI.:** By contributions and free-will offerings. – **ADDR.:** Box 16, Inchon. **Cable:** Team Seoul. – **L.P.:** Dir.: T. Watson jr. Dir. Tec.: Wm. S. Winchell. Dir. Prgr.: C. Hovland.

HOME SERVICE: 1065 kc/s 281 m 20 kW.
English: W. 06.30–09.30. Sat. 02.30–15.30. Sun. 00.30–09.30. – **Korean:** D.: 22.30–00.30, 09.30–11.30. **N.:** 23.30(W.), 00.00(Sun.). **L.L.** (English): D. 11.00 – **Russian:** D.: 11.30–13.30, 15.30–17.30. – **Chinese:** D.: 20.30–22.30, 13.30–15.30. – **ANN.:** "TEAM Radio HLKX, Inchon, Korea". – **V.** by QSL-card. – **PUB.:** Prgr.schedule free on request. HLKX-Echoes. – **F.Pl.:** Power 50 kW.

CHRISTIAN BROADCASTING SYSTEM (Non-Comm., Independent).

FI.: Almost entirely by donations from rel. groups and interested individuals. – **ADDR.:** 91 Chongno 2 Ka, Seoul. **Te.:** 3-2761. **L.P.:** Dir.: E. O. De Camp. Mgr.: C. Bok Kim. Dir. Tec.: M. K. Chun.
HOME SCE. in Korean, English: [1]) Seoul. [3]) Taegu. [3]) Pusan.
HLKY[1]) 840 kc/s 357 m 10 kW – HLKT[2]) 1000 kc/s 300 m 0.25 kW
FM[3]) 104 mc/s 0.25 kW – HLKP[3]) 1475 kc/s 203 m 0.25 kW
Korean: W.: 21.30–24.00, 03.20–05.30, 09.00–15.00. Sun.: 21.30–23.30, 05.30–15.30. – **N., Wrp.:** 21.30, 22.30, 23.30, 03.20, 04.20, 05.20, 09.20, 10.20, 11.20, 12.20, 14.30. – **Folklore Music:** Thurs.: 13.45–14.00. – **L.L.:** D. 21.45–22.00 (English), W. 14.15–14.30 (Mo., Wed., Fri.: German; Tues., Thurs., Sat.: French). – **English:** Sun.: 23.30–02.30, 13.00–13.30 (rel. prgr.'s). – **F.PL.:** 1 kW st. at Iri early 1961. Further reg. st's in Kwangju, Taejon, Mokpo, Andong.

RADIO STATION HLKU (Comm.)

ADDR.: No. 3, 3-Ka, Choong-Ang Dong, Pusan.
L.P.: Dir.: S. Soo Ang. Mgrs.: J. Whan Kim, K. Ok Chung. Dir. Prgr.: S. Yol Lee. Dir. Tec.: I. Gyu Pak.
HOME SERVICE in Korean: 1035 kc/s 290 m 1 kW: W.: 21.30–01.30, 04.00–06.00, 09.00–14.30. Sun.: 21.30–06.00, 09.00–14.30. – **N.:** 22.25, 04.25, 10.25, 11.20, 13.20.

★ LAOS ★

L.T.: GMT+7 h. – **Pr.L.:** Laotian, French. – **Po.:** 3.000.000. – **Rcvrs.:** 10.000. – **E.C.:** 115 V., A.C., 50 c/s.

RADIODIF. NATIONALE LAO (Go.)

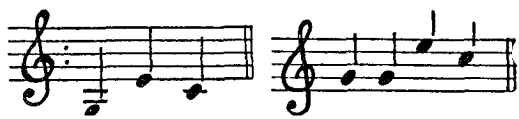
ADDR.: Radiodiffusion Nationale Lao, à Vientiane. **Cable:** Radio Lao. **Te.:** 76. – **L.P.:** Dir. Gen.: E. Bounthamaly. Dir. Tec.: Viengsavanh. Dir. Adm.: B. Hansacda.
Home Service: 00.00–02.30, 05.15–07.15, 12.00–17.00.
1340 kc/s 223.88 m 5 kW – 6130 kc/s 48.94 m 1 kW
7145 kc/s 41.99 m 1 kW
Laotian: 00.00–02.30, 12.00–16.00. – **N.:** 00.30, 12.30. – **Folklore Music:** 00.00, 12.00, 14.30, 15.30. – **French:** 06.00–07.00, 16.00–17.00. – **N.:** 06.30, 16.30.
ANN.: French: "Ici Vientiane, Radiodiffusion Nationale Lao". – **INT.-SIG.:** Music on Khene, instrument of bambus. – **V.** by QSL-card.

★ MACAU (Portuguese China) ★

L.T.: GMT+8 h. – **Pr.L.:** Portuguese, Chinese, English. – **Po.:** 250.000. – **Rcvrs.:** 10.000. – **E.C.:** 110 V., A.C., 50 c/s.

EMISSORA VILA VERDE (Pr.-Comm.)

FI.: By adv. **AD.:** Only on CR9XM spots or 15–30 min. prgr's. **ADDR.:** Radio Vila Verde, Macau. **Cable:** Vila. **Te.:** 3355. – **L.P.:** Dir.: P. J. Lobo. Mgr.: P. H. Lobo. Dir. Tec.: J. J. Alvares.
HOME SERVICE:
CR9XL 1000 kc/s 300 m 1 kW: 12.00–16.00: **Chinese**
CR9XM 1200 kc/s 250 m 3 kW: 23.00–16.00: **Portuguese**
Rel.: 11.30. – **Wrp.:** Portuguese: 05.30, 11.30, 14.30. Chinese: 03.30, 07.30, 10.30.
ANN.: P.: "Aqui Emissora Vila Verde Macau, estaçao CR9XL". – **V.** by letter or QSL-card. – **INT.-SIG.:**
CR9XM CR9XL



★ MALAYA (Federation) ★

L.T.: GMT+7½ h. – **Pr.L.:** Malay, English, Chinese, Tamil. – **Po.:** 6.250.000. – **Rcvrs.:** 224.248. – **E.C.:** 230/400 V., A.C., 50 c/s.

RADIO MALAYA (Go.)

ADDR.: Dept. of Broadcasting, 5th Floor, Federal House, Kuala Lumpur. **Cable:** Broadcasts. Te.: 82241. – **L.P.:** Dir.: D. J. Lyttle. Dep. Dir. Prgr.: M. J. Smee. Dep. Dir. Eng.: Kirpal Singh.

STATIONS: Medium Waves:

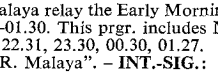
	kc/s	kW	Network		kc/s	kW	Network
Kuala Lumpur	590	10	Green	Kuala Lumpur	880	10	Blue
Penang	660	2	Red	Ipoh	910	2	Purple
Ipoh	740	2	Orange	K. Trengganu	960	0.3	Red
Penang	820	10	Blue	Malacca	1010	0.2	Purple
Kota Bharu	840	0.3	Red	Penang	1040	10	Green
Kuantan	860	0.3	Red	Kuala Lumpur	1070	10	Red
				Malacca	1280	0.2	Orange

Short Waves: *) Kuala Lumpur (Kajang). **) Singapore (Jurong).

kc/s	m	kW	Network	kc/s	m	kW	Network
6025*	49.79	5	Red	7200**	41.67	7.5	Blue
6135**	48.90	7.5	Red/Green	7280**	41.21	7.5	Green

HOME SCE. in Malay, English, Chinese, Tamil: 22.30–15.30.
6025 kc/s (Malay Service): Sun. 22.30–01.30, 03.30–15.30; Mo./Wed. 22.30–03.00, 03.30–06.30, 07.30–15.30; Tues./Thurs. 22.30–01.30, 02.30–06.3008.30–15.30; Fri. 22.30–15.30; Sat. 22.30–01.30, 04.00–15.30. – **N.:** 05.30, 06.00 (Fri. only), 09.30, 12.30, 14.30 – **Folklore music:** Fri. 12.45.
6135 kc/s (Malay/Indian Service): Sun. 22.30–15.30; Mo./Wed. 22.30–03.00, 03.30–15.30. Tues./Thurs. 22.30–01.30, 02.30–07.30, 08.30–15.30. Fri./Sat. 22.30–01.30, 03.00 (Sat. 04.00)–15.30. – **N. in Malay:** 05.30, 09.30, 12.30, 14.30. – **N. in Tamil:** 06.00, 11.30. – **Folklore music:** Wed. 10.40.
7200 kc/s (English Service): Sun. 22.30–15.30; Mo./Thurs. 22.30–02.40 (Tues. 02.15), 05.45–06.30, 08.40–15.30; Fri. 22.30–01.30, 05.45–06.30, 09.30–15.30; Sat. 22.30–01.30, 05.45–15.30. – **N.** 06.00, 11.30, 14.00. – **Folklore music:** Wed. 10.15.
7280 kc/s (Chinese Service): Sun. 22.30–15.30; Mo./Wed. 22.30–02.45, 04.30–05.45, 06.30–07.20, 09.30–15.30; Tues. 22.30–01.30, 04.30–05.45, 09.30–15.30; Thurs. 22.30–01.30, 04.30–05.45, 06.30–07.20, 09.30–15.30; Fri. 22.30–02.45, 04.30–06.00, 09.30–15.30; Sat. 22.30–01.30, 04.30–15.30. – **N.:** 05.20, 05.35, 10.00, 12.01, 12.30, 13.30, 14.30, 15.27.

All sw.-tr.'s of R. Malaya relay the Early Morning Service from Kuala Lumpur d. at 22.30–01.30. This prgr. includes **N. in English** at 00.10, 01.00. **N. in Malay:** 22.31, 23.30, 00.30, 01.27.
ANN.: E.: "This is R. Malaya". – **INT.-SIG.:**

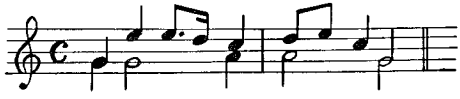


V. by letter. – **PUB.:** Prgr. schedule free on request. – **F. Pl.:** The Penang and Malacca st.'s will shortly become Regional Centres (Northern and Southern) in view of the increased range of the tr.'s stationed at these centres. Consideration has been given to the inauguration of an external service to neighbouring countries in S. E. Asia 1963. Commercial Service 1961 (April).

RADIO STATION RAAF (Royal Australian Air Force)
ADDR.: RAAF, Public Relations Officer, Dept. of Air, Canberra, Australia. **STATION:** 1440 kc/s 208.5 m 0.25 kW.

★ MONGOLIA (Peoples Rep.) ★

L.T.: GMT+8 h. – **Pr.L.:** Mongolian. – **Po.:** 1.000.000. – **Rcvrs.:** 20.000 – **E.C.:** 220 V. A.C., 50 c/s
ULAN BATOR RADIO (go.) - **F.I.:** By go., limited adv. allowed.
ADDR.: MNR Ulan Bator Radio, Ulan Bator. **Cable:** MNR Ulan Bator Radio. **L.P.:** Dir. Gen.: Zh. Zundur Dep. Dir.: P. Erdene.
STATIONS: 227 kc/s 1322 m 150 kw – 5960 kc/s 50.34 m 50 kw – 9575 kc/s 31.33 m 25 kw
HOME SCE. in Mongolian: 23.00 – 04.10, 08.00 - 15.00
Relay R. Moscow: 09.30 – 10.00, 14.00 – 15.00
FOREIGN SCE.: Russian: Mo., Fri. 12.00, – **Chinese:** Tues, Thurs. 11.35 – **Kazakh:** Tues. Sat. 12.15.
ANN.: "Ankhararai Ulanbatras jarsj baina" (Attention. This is Ulan-Bator Calling). – **INT.-SIG.:**



★ NEPAL ★

L.T.: GMT+5½ h. – **Pr.L.:** Nepali, Newari, Hindi, English. – **Po.:** 8.787.000. – **Rcvrs.:** 12.000. – **E.C.:** 120/220 & 380/440 V., A.C., 60 c/s.
RADIO NEPAL (Go.) – **ADDR.:** Kathmandu (Via India).
HOME SERVICE:
1500 kc/s 200.0 m 20 kW 12.20–14.10.
6004 – 49.96 – 5 – Wed.: 03.20–04.50, 07.50–09.20, 11.30–12.50.
N. in Newari: 03.35. – **N. in Nepali:** 03.40, 08.20, 12.22. – **N. in Hindi:** 04.40, 09.10. – **N. in English:** 04.35, 12.45.
ANN.: Nepali: "Yo Radio Nepal Ho". – **V. by letter. R.p.** – **F.PL.:** External Sce. from a 10 kW sw.-tr. to India, Pakistan, Tibet.

★ PAKISTAN ★

L.T.: We. Pakistan: GMT+5 h. **Ea. Pakistan:** GMT+6 h. – **Pr. L.:** Urdu, Bengali. – **Po.:** 83.603.000. – **Rcvrs.:** 250.000. – **E. C.:** 220 V, A. C., 50 c/s.
RADIO PAKISTAN (Go.)
ADDR.: 71, Garden Road, Karachi 3. **Cable:** Pakbrocast, Karachi. **Te.:** 70340. – **L. P.:** Dir. Gen.: R. Ahmed. Dep. Dir. Gen.: A. G. Eirabie. Chief Eng.: B. Ahmed. Dep. Dir. Gen.: A. Qutb. Dep. Chief Eng.: S. A. Aziz. Dir. Prgr. Planning: A. Butt. Adm. Officer: K. A. Mukhtar. Development Eng.: S. Hasan.
Executive Units: Dir. N. S. I. Haq. Dir. External Sce's.: H. Nasim. O. S. D., (External) S. A. Hafeez. Reg. Dir. Karachi: M. Iqbal. Reg. Dir. Lahore: A. B. Ahmed. Reg. Dir. Rawalpindi: A. Nasri. Reg. Dir. Peshawar: Q. A. Saeed. Reg. Dir. Hyderabad: S. Haider. Reg. Dir. Dacca: S. H. Chowdhury. Reg. Dir. Quetta: K. G. Ali. Dir. Monitoring: M. M. Sayeed. Resdt. Eng.: H. P. T.: S. Shah. Maintenance Eng.: M. A. Rehman. Installation Eng.: M. G. Baig. Research Eng.: Irfanuallh. Editor, Radio Pub.: G. Abbas. Dir. Staff Training: Z. Hussain. DTS.: A. M. Chagla.
STATIONS:
Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Peshawar I	790	379.7	10	Rawalpindi I	1150	260.0	10
Karachi I	830	361.4	10	Dacca I	1170	256.4	5
Chittagong	870	344.8	1	Rajshahi	1340	223.9	1
Hyderabad	1010	297	10	Quetta	1450	206.9	1
Lahore I	1090	275.2	5				

Short Waves: Karachi II/III = 50 kW; Karachi IV/V = 10 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
2420	124.00	7200	41.67	9750	30.77	15270	19.65
3395	88.37	7225	41.52	9755	30.76	15275	19.64
3915	76.63	7263	41.30	11650	25.75	15335	19.56
3945	76.05	7270	41.26	11674	25.70	15360	19.53
3955	75.85	7280	41.21	11726	25.58	17710	16.94
4807	62.41	7290	41.15	11740	25.55	17715	16.93
4895	61.29	7295	41.12	11770	25.49	17745	16.91
4910	61.10	9484	31.63	11795	25.43	17750	16.90
4935	60.79	9545	31.43	11800	25.42	17755	16.90
5980	50.17	9560	31.38	11810	25.40	17760	16.89
5990	50.08	9595	31.27	11840	25.34	17770	16.88
6035	49.71	9614	31.20	11845	25.33	17835	16.82
6070	49.42	9630	31.15	11885	25.24	21570	13.91
6075	49.38	9640	31.12	11914	25.18	21580	13.90
6235	48.12	9645	31.10	15135	19.82	21590	13.90
7010	42.80	9695	30.94	15155	19.80	21630	13.87
7096	42.27	9705	30.91	15160	19.79	21690	13.83
7150	41.96	9737	30.81	15205	19.73		
7160	41.90	9740	30.80	15255	19.67		

Dacca: II 7,5 kW, Dacca: III 10 kW

2350	127.66	6070	49.42	9605	31.23	15285	19.63
3325	90.23	6090	49.26	9614	31.20	15335	19.56
3950	75.95	6112	49.08	9615	31.20	17710	16.94
3955	75.86	6120	49.02	9645	31.10	17720	16.93
3965	75.66	7140	42.01	11725	25.59	17730	16.92
4790	62.63	7150	41.96	11885	25.24	17835	16.82
4807	62.41	7225	41.52	11890	25.23	17890	16.77
5035	59.58	7263	41.30	15160	19.79	21630	13.87
5970	50.25	7278	41.22	15265	19.66	21685	13.83
5980	50.17	7284	41.19	15270	19.65		

Lahore: II 1 kW

2400	125.00	4807	62.41	6138	48.88	9645	31.10
3335	89.96	6025	49.80	7225	41.52	11800	25.42
3915	76.63	6030	49.75	7270	41.26	11840	25.34
4785	62.70	6075	49.38	7284	41.19		

Rawalpindi II: 10 kW Peshawar II: 10 kW

2460	121.95	3259	92.53	2320	129.31	3241	92.56
7110	42.19	9730	30.83	7130	42.07	9600	31.25

All frequencies are subject to seasonal changes.

MEDIUM WAVE PROGRAMMES
Karachi (Urdu, English, Bengali, Kashmiri, Pushto, Arabic, Sindhi, Baluchi and Kashmiri): 01.45–03.30, 06.30–09.00 (Sun. 01.45–09.00), 11.30 (Fri., Sat., Sun. 12.00)–17.30.
Lahore: 02.00–03.30 (Sun. 05.30), 06.30–08.30, 11.30–17.00.
Peshawar: 02.00–03.30 (Sun. 04.30), 07.00 (Fri., Sun. 06.30)–08.30, 11.30–17.00.
Rawalpindi: 02.00–03.30 (Sun. 05.30), 07.00–08.30, 11.30–17.00.
Hyderabad: 02.00–03.30 (Sun. 05.30), 07.00–08.30, 12.00–17.00.
Quetta: 12.00 (Sat., Sun. 11.30)–17.00.
Dacca: 01.00–03.00 (Sun. 03.30), 07.00–08.30, 12.00–17.00.
Abbreviations: (K = Karachi, L = Lahore, P = Peshawar, R = Rawalpindi, D = Dacca, H = Hyderabad, Q = Quetta).
Nat. music: is broadcast d. from each st. of R. Pakistan on the chunks other than those reserved for fixed point items, spoken word items and news.

NEWS: National
English: 02.30–02.45 K, L, P, R, H, D. 06.30–06.40 K*, D. 08.00–08.10 K, L, P, R, H. 12.00–12.10 K, L, R, D. 14.45–15.00 K, L, P, R, H, D, Q. – **Local:** 13.20–13.25 K, L. 12.35–12.40 P. 12.25–12.30 R.
Urdu: National 02.45–03.00 K, L, P, R, H. D. 08.10–08.20 K, L, P, R, H,. 12.10–12.20 K, L, P, R, H, Q. – 15.00–15.15 K, L, P, R, H, D, Q. – **Local:** 13.15–13.20 K, L. 12.30–12.35 P. 12.20–12.25 R. 12.35–12.40 Q. 12.55–13.00 D.
Bengali: National 01.45–02.00 K, D. 06.40–06.50 K*, D. 13.45–14.00 K, D, – **Local:** 12.50–12.55 D.
Pushto: National 03.00–03.10 K**, P. 07.50–08.00 K**, P. 12.20–12.30 K**, P, Q. – **Local:** 13.45–13.55 P. 12.30–12.35 Q.
Sindhi: National 12.20–12.30 H.
Baluchi: National 13.20–13.30 Q. **Local:** 13.30–13.35 Q.
Kashmiri: National 12.35–12.45 K.
*) for Ea. Pakistan **) for We. Pakistan.

SHORT WAVE PROGRAMMES
Karachi to W. Pakistan: 01.45–03.30 on 6070/7280 kc, 07.00–08.30 on 9645/11845 kc, 12.00–12.30 on 7295/9645 kc, 12.35–13.30 on 7010/9750 kc, 14.00–15.15 on 7295/9645 kc.

01.45–02.00 N. in Bengali
02.00–02.30 Rel. prgr.
02.30–02.45 N. in English
02.45–03.00 N. in Urdu
03.00–03.10 N. in Pushto
03.10–03.30 Karachi prgr.
07.00–07.50 Karachi prgr.
08.00–08.10 N. in English
08.10–08.20 N. in Urdu
08.20–08.30 Karachi prgr.
12.00–12.10 N. in English
12.10–12.20 N. in Urdu
12.20–12.30 N. in Pushto
12.35–12.45 N. in Kashmiri
12.45–13.00 Kashmiri prgr.
13.20–13.30 N. in Baluchi
14.00–14.15 Nat. Hook-up & Karachi prgr.
14.45–15.00 N. in English
15.00–15.15 N. in Urdu

Karachi to Ea. Pakistan: 01.45–03.00 on 11885/15335 kc, 06.30–08.20, 12.00–12.20 on 17745/21590 kc, 13.45–15.15 on 11674/15155 kc.

01.45–02.00 N. in Bengali
02.00–02.30 Rel. prgr.
02.30–02.45 N. in English
02.45–03.00 N. in Urdu
06.30–06.40 N. in English
06.40–06.50 N. in Bengali
07.00–07.50 Karachi prgr.
08.00–08.10 N. in English
08.10–08.20 N. in Urdu
12.00–12.10 N. in English
12.10–12.20 N. in Urdu
13.45–14.00 N. in Bengali
14.00–14.45 Nat. Hook-up & Karachi prgr.
14.45–15.00 N. in English
15.00–15.15 N. in Urdu

Zonal Services:

Lahore	kc/s	Dacca II	kc/s	Dacca III to We. Pakistan	kc/s
02.00–03.30	4807	01.00–03.00	5980	01.00–03.00	15305
06.30–08.30	7225	06.00–07.30	9614	06.00–07.30	21685
11.30–13.30	7096	11.00–13.00	7140	11.00–13.30	21685
13.45–17.00	4807	13.15–16.30	5970	13.45–16.30	11865

Rawalpindi:	kc/s		kc/s		kc/s
02.00–03.30 (W)	4895	07.00–08.30	9755	11.00–11.30	7110

Peshawar	kc/s		kc/s		kc/s
02.00–03.30	3241	07.00–09.00	9680	11.30–12.45	7130
13.00–17.00	3241				

ANN.: "This is Radio Pakistan, Karachi, Lahore" etc.

EXTERNAL SERVICES

Time	Service	kc/s	Languages
00.30–01.15	So. Ea. As.	9645/11885	Urdu/English
03.45–04.45	So. Ea. Af.	17745/21590	Urdu/Gujrati
08.30–09.15	Indonesia	17745/21590	**English**
09.30–09.45	Gen. Overseas Sce.*	17745/21590	**English**
09.45–10.30	Burmese	17745/21590	Burmese
10.45–11.45	So. As	11920/17745	Urdu
15.30–15.45	Gen. Overseas Sce.**	11672/15145	**English**
15.30–16.30	Afghan-Persian	7290/9545	Afghan/Persian
16.00–16.45	Iran	5982/7010	Persian
17.00–18.00	Arabic	7010/11672	Arabic
18.15–19.00	Turkish	7010/11672	**English**
19.15–20.00	U. K.	7010/9595	**English**

* to F. East. **) to M. East.

ANN.: E.: "This is R. Pakistan calling listeners in (name of target country)". – INT.-SIG.: A signal tune is played during interval signals. – V. by QSL-card. – PUB.: "Pakistan Calling" in English, Urdu, Bengali (fortnightly). Monthly Pub. in Arabic, Persian, Burmese.

✶ PHILIPPINES ✶

L.T.: GMT+8 h. – Pr.L.: English, Tagalog, Ilocano, Visayan. – Po.: 23.800.000. – Rcvrs.: 900.000. – E.C.: 110/220 V., A.C., 60 c/s. Educational and Go.: 3), 6), 22). – Rel. St.: 1, 4), 11. Other st. private comm. (No. 2 is Go. owned, but it broadc. comm. prgr's) *) inactive.

STATIONS:

	Call	kc/s	m	kW	m.w.	Name & h. of tr.
1)	DYB4	3277	91.55	0.3	840	Silliman University: See below.
2)	DUB4	*3286	91.29	2.5	1190	Philippine Broadc. Service
3)	DZCA	*3305	90.77	1	550	Nat. Civil Defense Adm.
4)	DZB2	3345	89.68	2	**	Far East Broadc. Co.: 21.00–17.00.
3)	DZDA	3365	89.15	1	550	Nat. Civil Defense Adm.: 08.00–11.00.
5)	DXB3	3945	76.05	0.5	880	Notre Dame Broadc. Corp.: 22.00–14.00.
6)	DZB6	4945	60.67	0.5	1430	Nat. Teachers College: W. 09.30–11.00. Sun. 01.00–03.00
3)	DZDA	5970	50.25	1	550	Nat. Civil Defence Adm: 08.00–1100
7)	DZH4	6000	50.00	1	650	Voice of the Philippines: 21.00–15.00
4)	DZH6	6030	49.75	2	**	Far East Broadc. Co.: 21.00–17.00
1)	DYH4	6055	49.55	0.25	840	Silliman University: as 3277kc
7)	DZI7	6080	49.34	0.25	760	Voice of Manila: 21.00–16.00
7)	DYH3	6100	49.18	0.25	1260	R. Cebu: 21.00–15.00
8)	DZI4	6110	49.10	7.5	580	Republic Broadc. System: 09.00–17.00
7)	DYH2	6140	48.86	0.25	600	Voice of Cebu: 20.00–18.00
2)	DUH2	*6170	48.62	1	710	Philipp. Broadc. Sce.
9)	DZUP	7240	41.44	0.5	1580	Voice of the State University: W. 09.00–13.00
10)	DXH2	7280	41.21	0.5	900	Mindanao College Broadc. System: 21.00–14.00
11)	DZI2	9550	31.41	2	1000	Bolinao Electronics Corpo.: 21.00–17.00
2)	DUH3	*9570	31.35	0.25	710	Philipp. Broadc. Service
2)	DUH4	*9615	31.20	0.25	710	Philipp. Broadc. Service
7)	DZH2	9640	31.12	1	650	Voice of the Philippines: 21.00–15.00
12)	DZH5	9690	30.96	0.25	860	University of Santo Tomas: 10.00–14.00
4)	DZH7	9730	30.83	2	**	Far East Broadc. Co.: 21.00–17.00
7)	DZH3	9750	30.77	1	800	R. Philippines: 21.00–15.00
2)	DUH5	*11840	25.34	0.25	710	Philipp. Broadc. Sce.
4)	DZH8	11855	25.31	2	**	Far East Broadc. Co.: 21.00–17.00
4)	DZF2	11920	25.17	50	**	Far East Broadc. Co.: see below
4)	DZH9	15300	19.60	2	**	Far East Broadc. Co.: 21.00–17.00
4)	DZF3	15385	19.50	50	**	Far East Broadc. Co.: see below
4)	DZI6	17805	16.85	10	**	Far East Broadc. Co.: 21.00–17.00
4)	DZI8	21515	13.94	2	**	Far East Broadc. Co.: 22.15–17.00

** 680/1030 kc/s.

Medium Waves: ° Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
13) DZAA	540	0.5	5) DXMS	°880	1	18) DZAL	1230	1
3) DZCA	°550	1	8) DZXX	890	1	7f) DZHF	1250	1
14) DXWW	570	0.5	10) DXUM	900	1	26) DYVM	1260	0.5
8) DZBB	°580	10	18) DYHF	910	1	27) DZBW	1270	0.5
1c) DYRC	°600	1	19) DZXL	960	50	18) DYRI	1280	5
11) DZAQ	620	50	21) DXJC	980	1	21) DZEB	1290	1
7b) DXBC	630	1	11) DZBC	°1000	1	21) DZRL	1300	1
1d) DZRH	°650	10	14) DXJW	1010	1	18) DYML	1310	1
18) DYBC	660	1	8) DYSS	1020	1	18) DYRX	1320	1
7g) DYPL	670	1	4) DZFE	°1030	1	21) DXJJ	1330	1
4) DZAS	°680	10	11) DZRI	1040	1	11) DZMM	1340	1
2) DZFM	°710	10	11) DZRB	1060	1	23) DYRL	1360	1
16) DXIC	720	1	18) DYWX	1070	1	21) DZBS	1370	1
11) DZRD	730	1	25) DXVA	1080	1	20) DZWS	1380	5
10) DXMC	°740	5	10) DXCM	1090	1	24) DXRM	1390	1
7b) DZMB	°760	1	20) DZMT	1100	10	19) DYXL	1400	5
15) DZCP	770	1	21) DZVS	1110	0.5	6) DZTC	°1430	1
16) DXCC	780	1	22) DYMM	1120	0.5	8) DYOO	1440	1
7e) DYVL	790	0.5	18) DYOR	1130	1	16) DXVM	1450	0.5
7a) DZPI	°800	10	19) DZQL	1160	1	17) DZYY	1460	1
7c) DYBU	°820	1	18) DYLL	1170	1	21) DXOC	1490	1
17) DZMY	830	5	14) DXAW	1180	1	17) DZEL	1540	0.25
1) DYSR	°840	5	2) DZRM	1190	5	9) DZUP	1580	2
12) DXST	°860	1	18) DYRM	1200	1	26) DYDR	1590	1
19) DYQL	870	1	18) DYOG	1210	1			

1) Station DYSR, Dumaguete City. – L.P.: Dir. Ad.: H. W. Mack. – HOME SCE. in English, Visayan and Tagalog: W. 21.00–02.00. 02.30–06.00, 09.00–14.00. Sun. 21.00–14.00.
INT.-SIG.: Sign on: Battle Hymn of the Republic. – ANN.: "This is the Voice of Christian Brotherhood, DYSR, broadc. from Dumaguete City on 840 kc/s m.w. and on two s.w. stations in the 91 and 49 m bands". – V. by QSL-card or letter. – PUB.: Prgr.sched. free on request.

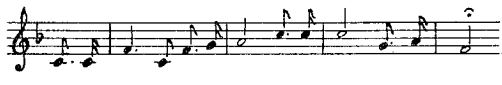
2) 5th Floor, GSIS Bldg., Manila. Cable: "Philcast". Te.: 3–24–15. – FI.: By state and adv. AD.: 60% of broadc. time. – L.P.: Gen. Mgr.: F. Trinidad. Prod. Mgr.: E. Avelino. Dir. Tec.: J. Dy (tr's), L. Quintos (studios). HOME SCE. on 710 kc (The People's Station) and 1190 kc+FM 105.5 mc (The Nations Station): 21.00–15.00.
On 710 kc: N.: English 22.45, 04.45, 05.20, 12.45. Philipino 21.15, 05.00. – Wrp.: (English): 21.05, 00.30, 06.15, 14.40.
On 1190 kc: N. in English: Every h. on the half hour from 22.30 to 10.30. – ANN.: "This is the Philippine Broadcasting Service. You are tuned to DZFM, the People's Station, broadcasting from Manila on 710 kilocycles. DZRM, 1190 kilocycles AM, 105.5 megacycles FM". – V. by QSL-card. R.p. – F.Pl.: Five rel. st's 1961.

3) Independence Grandstand, Luneta, Manila. L.P.: Adm.: A. G. Eugenio. Dir. Tec.: Miss A. Clemente. – D. Prgr.: N.: English: 08.30, 09.30, 10.30
ANN.: Station DZCA of National Civil Defense Administration. – V. by QSL-card and letter. – F.PL.: Power 10 kW shortly.

4) FI: FEBC is a non-profit, non-comm. organization being sustained by free-will gifts and offerings from interested friends.
ADDR.: Box 2041, Manila. Cable: "FEBCOM". Te.: 21057. – L.P.: Pres.: R. H. Bowman. Vicepres.-Secretary: Wm. J. Roberts. Treasurer: A. Nelli. Philipp. Adm. Dir.: M. D. Atienza. Dir. Prgr.: R. H. Boettcher. Dir. Tec.: R. Reynolds.
Philippine Service: On 680/3345/6030 kc: 20.55–15.00 (Sun. 15.30). 21.00–23.00 Philippine dialects; 23.00–01.30 English; 01.30–02.45 Tagalog; 02.45–05.00 English; 05.00–06.00 Chinese; 06.00–09.30 English; 09.30–12.00 Philippine dialects; 12.00–17.00 (17.30 Sun.) English.
English Service: 21.00–23.30 on 1030/15300/21515 kc; 23.30–01.00 on 1030/15385/21515 kc; 01.00–02.30 on 1030/15300/21515 kc; 02.30–04.30 on 1030/11855/15300/17805/21515 kc; 04.30–07.30 on 1030 kc; 07.30–09.00 on 1030/9730/11855/15300/17805/21515 kc; 09.00–12.30 on 1030/15300/21515 kc; 12.30–13.30 on 1030/9730/11920/21515 kc; 13.30–15.00 on 1030 kc; 15.00–16.30 on 1030/9730/11920/21515 kc.
Overseas Service: 21.00–22.00 Japanese on 9730/11855/17805 kc; 22.00–23.00 Mandarin on 9730/11920/17805 kc; 23.00–23.30 Cantonese on 9730/15385/17805 & 23.30–23.45 English on 9730/11855/15385/17805/21515 kc; 23.45–00.45 Indonesian, Thai, Lao on 9730

/11855/17805 kc; 01.00–01.30 Burmese, Tibetan, Karen, Nepali on 15385/21515 kc; 01.30–02.30 Mandarin on 11855/17805 kc; 02.30–04.30 **English** on 11855/15300/17805/ 21515kc; 04.30–06.30 Vietnamese, Cambodian, Chinese on 11855/15300/17805/21515 kc; 09.00–10.30 Amoy and Indonesian on 9730/11855/17805 kc; 10.30–12.00 Japanese on 9730/11920/17805 kc; 12.00–12.30 Thai on 11920/17805 kc; 12.30–13.30 Lao, Cambodian, Vietnamese on 15300/17805 kc; 13.30–17.00 Chinese on 9730/15300/17805 kc; 13.00–16.00 Indian vernacular and **English** on 11920/21515 kc; 16.00–16.30 **English** on 11920/21515 kc; 16.30–17.00 Russian on 11920/21515 kc.

ANN.: E.: Philippine Sce.: "This is the Call of the Orient. (Chimes – 13 seconds). The Philippine Sce. of the Far East Broadcasting Company, DZAS 680 kc/s medium wave and related short wave stations in the 89 and 49 meter bands... from Manila. This is the Call of the Orient... DZAS, DZB2 and DZH6... The Philippine See of the Far East Broadcasting Company... serving the Philippines". **Overseas Sce.:** "This is the Call of the Orient (chimes – 13 seconds) the Overseas Sce. of the Far East Broadcasting Company operating in the ... meter bands. This is the Call of the Orient, Manila, operating at... mc/s". **- INT.-SIG.:**



V. by QSL-card and letter. R. p. is welcomed. Separate card used for each freq. – **PUB.:** prgr. schedule free on request

5) Cotabato City, Cotabato.

6) National Teachers College, P. O. Box 3032 Manila. – **ANN.:E.:** "This is the Voice of Education". – V. by letter.

7) **MANILA BROADCASTING COMPANY – Addr.:** Radio Center Philippines, 964 Taft Avenue, Manila. – **Cable:** "MANBROADCO". – **L.P.:** Gen. Mgr.: Ira Davis.

a) **THE VOICE OF PHILIPPINES** – **Addr.:** R. Center Philippines, 964 Taft Avenue, Manila. – **L.P.:** Production Mgr.: Ray Cordova. **HOME SCE.: In English, Tagalog: N. in English:** W.: 00.00, 05.05, 13.00. **Wrp.:** Usually in the mornings. In the presence of a storm in the archipelag several times during the day. – V. by QSL-card. R. p

b) **THE VOICE OF MANILA** – **Addr.:** R. Center Philippines, 964 Taft Avenue, Manila. – **L.P.:** Production Mgr.: Phil. Delfino. – **HOME SCE. in English, Tagalog: N. in English:** D. 05.15 (Ann.: Cris de Vera). – V. ky QSL-card. R.p.

c) **CEBU BROADCASTING COMPANY:** ("VOICE OF CEBU" & "RADIO CEBU"): **Addr.:** Lim Bon Fing Building, Cebu City. **Home Sce. in English & Visayan: N. in English:** Sun. 03.15. Mo.–Sat.: 23.15, 15.00, 08.30, 13.45, (Ann.: S. D. Tecson). – **INT.-SIG.:** For DYRC musical chimes: Sol-mi-do. – V. by QSL. card. R.p. – **F.PL.:** DYRC 5 kW.

d) **RADIO PHILIPPINES – Addr.:** R. Center Philippines, 964 Taft Avenue, Manila. – **L.P.:** Production Mgr.: Ben Francisco. – **Home Sce. in English, Spanish, Tagalog: N. in Enlish:** D. 01.00. **Spanish: "LA TABERNA":** D. 04.30–05.15. (Ann.: Mecca Trapaga). **Chinese hour:** Mo.–Sat. 06.00–06.30. (Ann.: Mary Yu). – V. by QSL-card. R.p.

e) **THE VOICE OF LEYTE** – **Addr.:** Red Beach, Palo, Leyte. – **L.P.:** Production Mgr.: Eduardo Montilla. Broadcasts in **English** and **Waray-Waray** dialect.

f) **METROPOLITAN BROADC. CO.** – **Addr.:** R. Center, 964 Taft Ave., Manila.

8) RBS Building Highway 54, Diliman, Q.C. **Cable:** "Bobstew". – **L.P.:** St. Mgr.: G. E. Viduya. – **Home Sce. in English, Chinese, Tagalog:** DZBB: 22.00–18.00; DZXX: 21.00–18.00; DYSS: 20.00 –18.00; DYOO: 20.00–16.00.

9) College of Engineering, University of the Philippines, Quezon City. – V. by QSL card – **F.PL.:** mw 5 kw, sw, 1 kw. FM.

10) Davao City, Mindanao. – **Home Sce. in English, Visayan:** DZMC & DXUM: 21.00–14.00. **Ann.:** "This is MCBS, The Mindanao Colleges Broadcasting System. DXMC, The Voice of Davao, broadcasting from the heart of Davao".

11) P.O.Box 1344, Manila – DZAQ, DZBC: ABS Bldg., Dewey Blvd., Manila. DZRD/DZRI: Blue Beach, Dagupan City. DZMM: San Juan. **DZRB:** El Morocco Hotel, Naga City. – **Home Sce.: in English, Tagalog:** DZAQ: 21.00–16.00, DZBC: 20.00–17.00. DZRD/DZRI: 21.00–16.00, DZMM: 24 h. DZRB: 21.00–01.00, 04.00–14.00.

12) The Voice of the Catholic Philippines, University of Santo Tomas, Espana, Manila. – **Home Sce. in Tagalog, English & Spanish: N. in English:** 10.15. **N. in Spanish:** 12.15. **Nat. Music (Tagalog):** 11.00. – **ANN.: E.:** "This is the Voice of the Catholic Philippines, Radio Stations DZST and DZH5, broadcasting from Manila". – **INT.-SIG.:** Chimes. – V. by QSL-card.

Medium Waves:

13) **Pacific Broadc. System, Inc.,** Eden Hotel, Legaspi City. – **D.Prgr.:** 21.00–15.00.

14) **Pioneer Station,** P.O.Box 121, Davao City. – **L.P.:** Dir. A. J. Wills. DXWW (Davao City): 22.00–15.00. DXJW (Zamboanga City): 22.00–14.00. DXAW (Davao City): 21.00–16.00 in **English, Visayan.**

15) **R. Station DZCP,** Roman Santos Bldg., Manila. – **L.P.:** Dir.: E. B. Lenn. – **D.Prgr.:** 21.00–16.00.

16) **R. Mindanao:** Cagayan de Oro City. – **L.P.:** Dir. H. Canoy. Dir. Tec.: M. Gualberto. – **D.Prgr.:** 22.00–14.00 in **English, Visayan** on DXBC (Butuan City), DXIC (Iligan City), DXCC/DXVM (Cagayan de Oro City).

17) **Monserrat Broadc. System,** CBN Bldg., Aduana Str., Intramuros, Manila. – **D.Prgr.:** DZMY (Angono, Rizal) 21.00–17.00. DZYY-FM (Minala): 24 h.

18) **Visayan Broadc. System,** P. O. Box 41, Iloilo City. – **L.P.:** Dir.: E. Lopez. – **D. Prgr.:** DYBC (Cebu City) 21.00–16.00, DYHF (Iloilo City): 21.00–15.00. DYLL (Tacloban): 21.00–16.00. DYRI (Iloilo City): 21.00–16.00. DYWX (Bacolod City)/DYOR (Ormoc City/DYRM (Dumaguete City/DYOG (Calba yog City)/DZAL (Legaspi City)/DYML (Tagbilaran, Bohol), DYRX (Roxas City): 21.00–16.00.

19) **Chronicle Broadc. Network,** CBN Bldg., Aduana, Str. Manila. **Cable:** "CBN, Manila". **Te.:** 3 00 61 – **L.P,:** Gen. Mgr. & Executive Vice Pres.: E. Lopez jr. Asst. Gen. Mgr.: G.R. Alba. Dir. Prgr.: R. Tierro. Dir. Tec.: R. Carballo. **D. Prgr.:** DYPL (Iloilo City)/DYQL (Bacolod City): 21.00–16.00. DZXL (Angono, Rizal): 21.00–15.00. DZQL (Angono, Rizal): 24 h. DYXL (Bacolod City): 21.00–16.00. DZYL-FM (Manila): 21.00–15.00. **ANN.:** "CBN-the Cronicle Broadc. Network" (St. 17) belongs to 19.)

20) **Manila Times Publishing Co.,** Manila. – **L.P.:** Dir.: F. Torres. – **D. Prgr.:** DZMT/DZMT-FM: 24 h. DZWS: 21.00–16.00.

21) **Oceanic Wireless Network, Inc.,** Alliance Bldg., Rosario, Manila. – **D. Prgr.:** 22.00–1600 on DXJC (Jolo, Sulo), DZVS (Sogorson), DZEB (Naga City), DZRL (Laoag), DXJJ (Zamboanga City), DZBS (Baguio City), DXOC (Ozamis City).

22) **R. Station DYMM,** Bacolod City. – **D. Prgr.:** 21.00–1700.

23) **Bacolod Broadc. System,** Lacson Str., Bacolod City. – **L. P.:** Dir. R. Lopez. – **D. Prgr.:** 21.00–16.00. – V. by QSL-card or letter.

24) **Mindanao Broadc. Co.,** Marawi City. 22.00–13.00.

25) **Agusan Broadc. Co.,** Butuan City. – **D. Prgr.:** 21.00–16.00.

26) **Central Philippines Broadc. Co.,** 148 Colon St., Cobu City. – **D. Prgr.:** 21.00–16.00.

27) **Liberty Broadc. Network,** Dagupan City.

VOICE OF AMERICA RADIO STATION IN MANILA

ADDR.: Voice of America. Washington 25, D. C., USA.

STATIONS:

Medium Wave: Manila-A 920 kc/s 326 m 50 kW: 11.00–16.30.
Short Wave: Manila 7.5/50 kW; 09.00–16.30, 20.00–01.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
9770	30.71	11960	25.08	15210	19.72	17745	16.91
11785	25.46	15155	19.80	15250	19.67		

D.PRGR.: Medium Wave: 11.00–11.30 **English.** 11.30–12.00 **Mandarin.** 12.00–16.30 **English.**
Short Wave: See U.S.A.

ANN.: "This is the Voice of America Transmitter in the Philippines" **INT.-SIG.:** Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – V. by QSL-card.

VOICE OF AMERICA RADIO STATION IN NORTHERN LUZON

ADDR.: Voice of America, Washington 25, D.C., USA.

STATIONS:

Medium Wave: Philippines-B 1140 kc/s 263 m 1000 kW: 11.30–16.30.
Short Wave: Philippines 35/100 kW 09.00 17.00, 22.00–02.30.

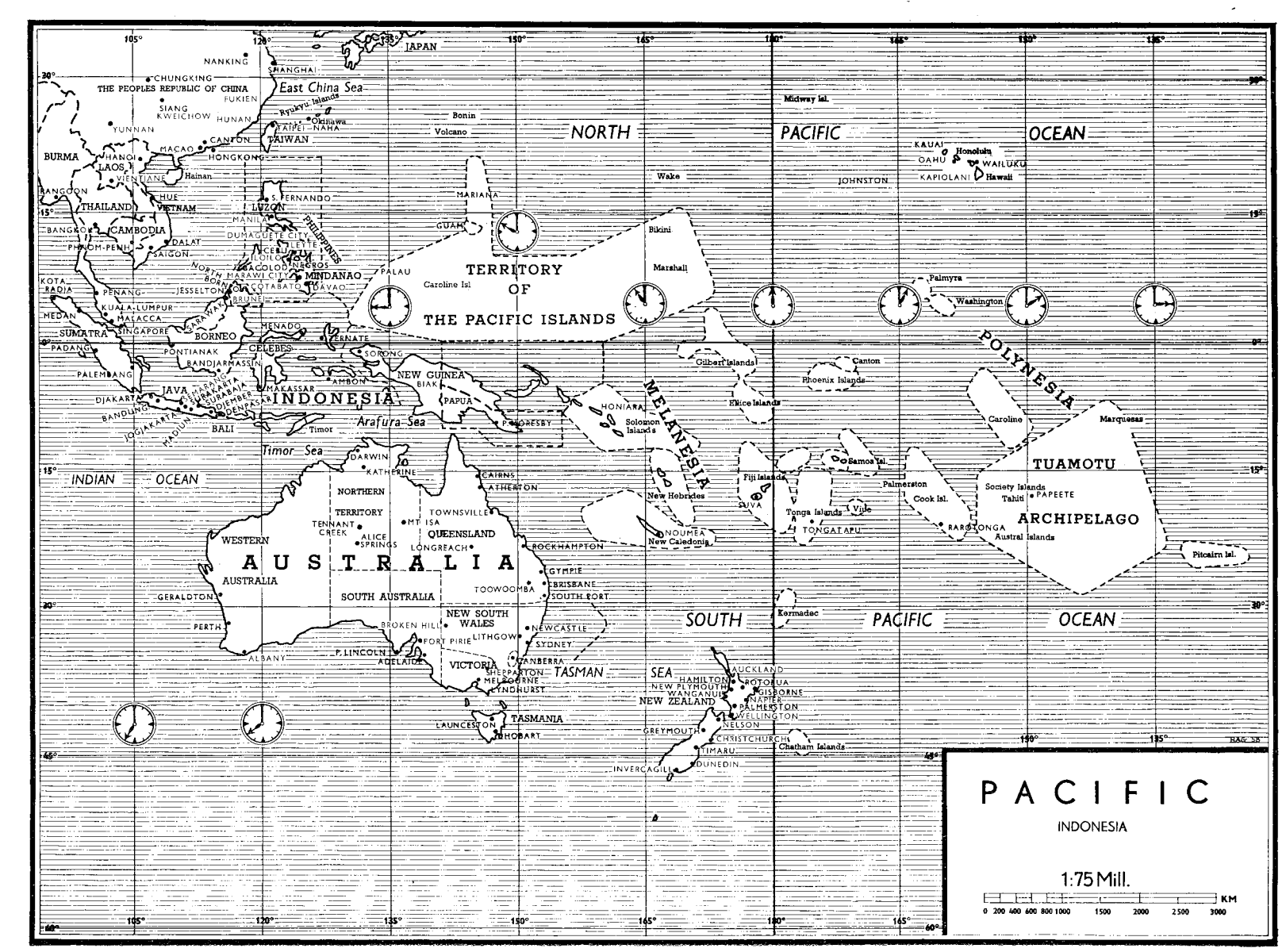
kc/s	m	kc/s	m	kc/s	m	kc/s	m
6125	48.98	11895	25.22	15185	19.76	15335	19.56
7175	41.81	15125	19.83	15275	19.64	17780	16.87
9535	31.46	15130	19.83	15330	19.57	21655	13.86
9665	31.04						

D.PRGR.: Medium Wave:

11.30–12.00 Mandarin	13.15–14.00 Burmese	15.30–16.00 Vietnam.
12.00–12.30 Cantonese	14.00–14.30 Amoy	16.00–16.30 **English**
12.30–13.00 Vietnamese	14.30–15.00 Mandarin	
13.00–13.15 English	15.00–15.30 Cantonese	**Short Wave:** see USA.

ANN.: "This is the Voice of America Transmitter in the Philippines". – **INT.-SIG.:** Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA. – V. by QSL-card.

ARMED FORCES RADIO & TV SERVICE: see USA.


PACIFIC
INDONESIA
1:75 Mill.
KM
0 200 400 600 800 1000 1500 2000 2500 3000
NORTH PACIFIC OCEAN
SOUTH PACIFIC OCEAN
INDIAN OCEAN
TERRITORY OF THE PACIFIC ISLANDS
AUSTRALIA
INDONESIA
POLYNESIA
MELANESIA
MICRONESIA
TUAMOTU ARCHIPELAGO
JAPAN
East China Sea
Arafura Sea
Timor Sea
Tasman Sea
THE PEOPLES REPUBLIC OF CHINA
TAIWAN
PHILIPPINES
NEW GUINEA
NEW ZEALAND
Midway Isl.
Wake
Bikini
Marshall
Palmyra
Washington
Canton
Phoenix Islands
Gilbert Islands
Ellice Islands
Samoa Isl.
Fiji Islands
New Hebrides
Solomon Islands
Caroline
Marquesas
Society Islands
Tahiti
PAPEETE
Cook Isl.
Palmerston
Tonga Islands
TONGATAPU
RAROTONGA
Austral Islands
Pitcairn Isl.
Kermadec
Chatham Islands
NORTHERN TERRITORY
WESTERN AUSTRALIA
QUEENSLAND
NEW SOUTH WALES
VICTORIA
SOUTH AUSTRALIA
TASMANIA
NEW ZEALAND
DARWIN
KATHERINE
CAIRNS
ATHERTON
TOWNSVILLE
MT ISA
LONGREACH
ROCKHAMPTON
GYMPIE
BRISBANE
TOOWOOMBA
SOUTH PORT
NEWCASTLE
SYDNEY
CANBERRA
MELBOURNE
SHEPPARTON
BALLARAT
BENDIGO
ALBURY
WODONGA
GEELONG
PORT PIRIE
PORT AUGUSTA
WHYALLA
BROKEN HILL
LITHGOW
ADELAIDE
P. LINCOLN
ALBANY
PERTH
GERALDTON
TENNANT CREEK
ALICE SPRINGS
AUCKLAND
HAMILTON
ROTORUA
NEW PLYMOUTH
GISBORNE
WANGANUI
NAPIER
PALMERSTON
WELLINGTON
NELSON
GREYMOUTH
CHRISTCHURCH
TIMARU
DUNEDIN
INVERCARGILL
HONOLULU
WAILUKU
KAUAI
OAHU
KAPIOLANI
Hawaii
JOHNSTON
Bonin Volcano
Ryukyu Islands
Okinawa
NAHA
TAIPEI
NANKING
SHANGHAI
CHUNGKING
SIANG
KWEICHOW
HUNAN
YUNNAN
FUKIEN
CANTON
MACAO
HONGKONG
Hainan
HANOI
LAOS
VIENTIANE
BURMA
RANGOON
THAILAND
HUE
VIETNAM
CAMBODIA
DALAT
SAIGON
PHNOM-PENH
BANGKOK
KOTA RADJA
PENANG
KUALA-LUMPUR
MALACCA
MEDAN
SUMATRA
SINGAPORE
PADANG
PONTIANAK
BANDJARMASSIN
PALEMBANG
JAVA
SEMARANG
SURABAJA
DJAKARTA
BANDUNG
JOGJAKARTA
MADIUN
SOERABAJA
DJEMBER
DENPASAR
BALI
BORNEO
SARAWAK
JESSELTON
BRUNEE
NORTH BORNEO
KOTABATO
DAVAO
MINDANAO
ZAMBOANGA
NEGROS
CEBU
ILOILO
PANAY
LEYTE
DUMAGUETE CITY
MANILA
LUZON
S. FERNANDO
MARIANA
GUAM
PALAU
Caroline Isl
MENADO
TERNATE
CELEBES
SORONG
AMBON
BIAK
PAPUA
P. MORESBY
MAKASSAR
HONIARA
NOUMEA
New Caledonia
SUVA
Vila
NOEMFOOR
Timor
Midway Isl.
Wake
Bikini
Marshall
Palmyra
Washington
Canton
Phoenix Islands
Gilbert Islands
Ellice Islands
Samoa Isl.
Fiji Islands
New Hebrides
Solomon Islands
Caroline
Marquesas
Society Islands
Tahiti
PAPEETE
Cook Isl.
Palmerston
Tonga Islands
TONGATAPU
RAROTONGA
Austral Islands
Pitcairn Isl.
Kermadec
Chatham Islands
HAG 55

★ RYUKYU ISLANDS ★

L.T.: GMT+9 h. – Pr. L.: English, Japanese. – Po.: 855.000. – Rcvrs.: 25.000. – E.C.: 110 V., A.C., 60 c/s.

RYUKYUS BROADCASTING CORPORATION (Comm.)
ADDR.: C.P. O. Box 4, Naha, Okinava. – L.P.: Pres.: S. Zayasu. Dir. of Programing RBC (both stations): K. Kabira. Mgr. (KSBK): O. Luria. Dir. Prgr. (KSBK): D. Hoffmann.
HOME SERVICE:
KSAR 740 kc/s 3 kW: 20.30–15.05 in Japanese
KSBK 880 – 0.05 – : 21.00–15.08 in English
N. in English: Every h. on the h. – ANN.: Both st.s are identified by call letters given in English hourly.

FAR EAST BROADCASTING CO. (Non-Comm., missionary).
FL.: By freewill gifts. – ADDR.: Box 55, Naha, Okinawa. Te.: 37–287. Cable: Febcom. – L.P.: Dir. B. Reames. Dir. Tec.: R. Kellum. – STATIONS: KSAB 1020 kc 3 kW – KSDX 1250 kc 1 kW.
KSAB English W. 21.00–00.30, 07.30–12.15. Sun. 02.45–06.00, 08.30–12.15. – KSDX Japanese: D. 21.00–04.30, 08.30–14.00.
V. by QSL-card. Rp. – F.PL.: KSBU 850 kc 100 kW in Chinese.

RADIO OKINAWA CO. LTD. (Comm.)
ADDR.: P.O. Box 405, Naha, Okinawa. – L.P.: Man. Dir.: S. Ikemiyagusuku.
STATION: KSDT 1370 kc/s 3 kW 20.00–15.30 in Japanese, English

VOICE OF AMERICA RADIO STATION IN OKINAWA
ADDR.: Voice of America, Washington 25, D.C., USA.
STATIONS:
Medium Wave: Okinawa-A 1180 kc/s 254 m 1000 kW: 11.00–16.30.
Short Wave: Okinawa 35/100 kW: 09.00–16.30, 20.00–01.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6145	48.82	9545	31.43	9670	31.02	15215	19.72
7155	41.92	9615	31.20	9710	30.90	15380	19.51
7160	41.90	9665	31.04	11960	25.08		

D.PRGR.: Medium Wave:
11.00–11.30 English 12.30–13.00 Mandarin 14.30–15.00 Mandarin
11.30–12.00 Mandarin 13.00–13.30 Korean 15.00–15.30 Russian
12.00–12.30 Russian 13.30–14.00 Mandarin 15.30–16.00 Mandarin
14.00–14.30 English 16.00–16.30 English
Short Wave: see USA.
ANN.: "This is the Voice of America Transmitter on Okinawa".
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA.
V. by QSL-card.

ARMED FORCES RADIO & TV SCE.: see USA.

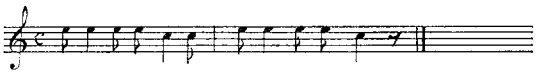
★ SARAWAK (British) ★

L.T.: GMT+8 h. – Pr. L.: English, Malay, Chinese, Iban. – Po.: 650.000. – Rcvrs.: 30.000. – E.C.: 400/230 V., A.C., 50 c/s.

SARAWAK BROADCASTING SERVICE (Go.)
ADDR.: Radio Sarawak, Broadcasting House, Kuching. Cable: Broadcast. – L.P.: Dir. Broadc.: P. Ratcliffe, OBE. Dir. Tec.: J. R. Sandison.
HOME SERVICES: D.: 23.00–00.15. 04,00–05.00 (Sat. & Sun. 06.30), 08.30–14.30.

730 kc/s	410.9 m	10 kW	4950 kc/s	60.60 m	7.5 kW
850 –	352.9 –	5 –	9565 –	31.36 –	7.5 –
4835 –	62.05 –	5 –			

On 730/4950 kc/s: 23.00–00.15.
On 730/9565 kc/s: 04.00–05.30 (Sat. & Sun. 06.30). English 04.00–05.00 (Thurs., Sat., Sun.), 05.00–05.30 (Sat. & Sun. 06.30). Malay 04.00–05.00 (Mo., Wed.). Chinese 04.00–05.00 (Tues., Fri.).
On 730/4950 kc/s: 08.30–14.30. English & Malay Services (Malay 08.30–10.30, 12.00–13.00. English: 10.30–12.00, 13.00–14.30).
On 850/4835 kc/s: 09.15–14.00 Chinese & Iban Services (Chinese 09.15–11.00, 12.30–14.00, Iban 11.00–12.30).
ANN.: E.: "This is Radio Sarawak". – V. by QSL-card or letter. – INT.-SIG.:



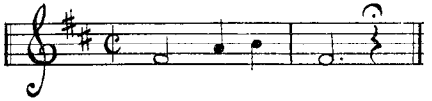
PUB.: "R. Times of Sarawak" (Fortnightly), "Iban Radio Quarterly".

★ SINGAPORE (British) ★

L.T.: GMT+7½ h. – Pr. L.: English, Malay, Chinese, Tamil. – Po.: 1,560.000. – Rcvrs.: 100.000. – E.C.: 230 V., Z.C., 50 c/s.

RADIO SINGAPORE (Go.)
ADDR.: Dept. of Broadcasting. P.O. Box 1902, Singapore. Cable: Broadcast – L.P.: Dir. of Broadc.: H. H. Beamish. Dir. L. F. Tec.: Lambert.

HOME SERVICE: 23.00–15.30.
ZHL 630 kc/s 476 m 10 kW – ZHL2 790 kc/s 380 m 10 kW – ZHL5 990 kc/s 303 m 10 kW – ZHL 4780 kc/s 62.76 m 7.5 kW: 10.30–14.30 (relay 630 kc/s).
English: 12.30–13.30, Tamil 10.30–11.30, Chinese 11.30–12.30, Malay 13.30–14.30.
ANN.: E.: "This is R. Singapore". – INT.-SIG.: First four notes of "Dayong Sampan "(guitar). – V. by QSL-card.



F.PL.: A national shortwave service "Suara Singapura" (Voice of Singapore) beamed to neighbour countries to start in 1961.

FORCES BROADCASTING SERVICE (British Military)
ADDR.: Forces Broadcasting Unit, GHQ FARELF, c/o G.P.O., Singapore. – L.P.: Station Commander: W. J. O. Ettridge.
D.PRGR.: 5010 kc/s 59.88 m 7.5 kW: 10.45–14.00. D. 10.45–12.00. British Prgr.: D. 12.00–14.00. Gurkhali. – V. by letter.

BBC FAR EASTERN STATION: See Gt. Britain.

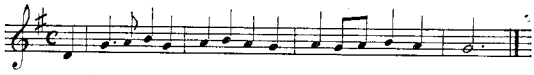
★ THAILAND ★

L.T.: GMT+7 h. – Pr. L.: Thai. – Po.: 25.000.000. – Rcvrs.: 250.000. – E.C.: 110/220 V., A.C., 50 c/s.

THE THAI NATIONAL BROADCASTING STATION (Go.)
ADDR.: Public Relations Department, Bangkok.
STATIONS:

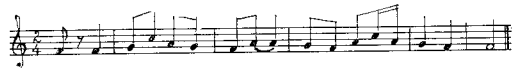
Call	kc/s	m	kW	Call	kc/s	m	kW
HSK	830	361.0	10	HSK7	11910	25.18	0.5
HSK4	4830	62.10	1	HSK9	11910	25.18	50
HSK5	6070	49.42	1	HSK9	15380	19.51	50
HSK6	7140	42.01	1	HSK8	15630	19.19	0.25

HOME SCE.: 00.00–01.00, 12.00–15.20 on 830/4830/6070/7140 kc/s. N.: 13.00.
FOREIGN SCE. on 11910 kc/s (HSK9 – 50 kW):
North American Sce.: 04.15–05.15. N. in English: 04.25.
For Thai Forces in Korea (in Thai): 09.30–10.20. N. 09.35 – General Overseas Sce.: 10.25–11.57. N. in English: 10.30. Malay: 11.30. Chinese: 11.45. – Relay Home Sce.: 13.00–14.00.
ANN.: E.: "This is the Overseas Broadcasting Station of Thailand". – V. by QSL-card and letter. – INT.-SIG.:



MINISTRY OF EDUCATION (Go.)
ADDR.: Division of Educational Inf., Ministry of Education, Bangkok. – L.P.: Chairman of Executive Board of Education Broadc. Sce.: N. Devahastin. Secr. Gen., Dir. Div. of Educational Inf.: Mrs. A. Meesok. Dir. Tec.: S. Hongpromyat. Studio Mgr.: M. R. S. Siributr.
HOME SCE.: 11.00–13.00 in Thai, English:
1180 kc 254.2 m 2 kW – 3202 kc 93.69 m 2 kW – 6062 kc 49.48 m 2 kW.
N.: 11.35, 12.55 .– Nat. Music: 12.10–12.55. – English: Wed. 11.50–12.10; one Tues. monthly 12.10–12.55.
ANN.: E.: "This is the Education Broadcasting Station of Thailand, broadcasting on a frequency of...". – V. by letter. – F.PL.: Increase to 10 kW.

PITUKSUNTIRADSE RADIO STATION (Go.)
ADDR.: Paruksakavun Palace, Bangkok.
HOME SERVICE in Thai: HSQ
Network I: 23.00–01.00, 09.00–13.00.
900 kc/s 333.3 m – 4770 kc/s 62.89 m – 7230 kc/s 41.49 m à 1 kW.
Network II: 04.00–07.00, 09.00–15.00.
995 kc/s 301.5 m 0.25 kW – 1400 kc/s 214.3 m 1 kW.
Network III: 23.00–02.30, 05.00–06.00, 08.30–15.15.
1080 kc/s 277.8 m – 4620 kc/s 64.93 m – 5850 kc/s 51.27 m – 7620 kc/s 39.37 m – 0.5 kW.
N.: 00.00–00.15, 11.30–11.45, 12.45–13.15. – Wrp.: 01.00, 11.45.
ANN.: In Thai and English.
INT.-SIG.:



TERRITORIAL DEFENSE BROADCASTING STATION (Military) Bangkok.
HOME SCE. in Thai: HSARD 4838 kc/s 62.00 m 0.4 kW:
W. 00.30–04.00, 05.00–08.00, 10.30–15.30 (Sun. 10.25–15.00).

THAI TELEVISION CO. LTD. (Comm.)
ADDR.: Mansion B. Rajadammern Ave., Bangkok. **Cable:** "Thaitevi". **Te.:** 25061. – **L.P.:** Managing Dir.: N. P. Hongsanand.
HOME SERVICE in Thai: 22.57–16.20.
1146 kc/s 262 m – 1500 kc/s 200 m – 5270 kc/s 56.93 m: **N.:** 16.00. **ANN.: E.:** "This is Thai TV-Radio, the broadcasting station of the Thai Television Company".

★ VIETNAM (Republic) ★

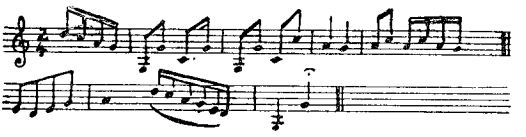
L.T.: GMT+8 h. – **Pr. L.:** Vietnamese, French, Chinese. – **Po.:** 12.300.000. – **Rcvrs.:** 120.000. – **E.C.:** 115 V., A.C., 50 c/s.

LA RADIODIFFUSION NATIONALE DU VIETNAM (Go.)
Called "VTVN" (Standing for Vô-Tuyén Viêtnam).
ADDR.: 3 Duong Phan-dinh-Phung, Saigon. **Te.:** 277. – **L.P.:** Dir. Gen.: Nguyen-Dinh-Thu. Dir. Tec.: Lung-Ját-Chuong. Dir. Prgr.: Buu-Nghi. Adm. Dir.: Ngo-Van-Sieng.

STATIONS: Radio VTVN, Saigon.

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
750	400	1	4808	62.40	5	7265	41.29	12
838	358	1	6116	49.05	20	9620	31.19	12
1090	275	5	6165	48.66	5	9754	30.76	25
1360	220	1	7245	41.41	20	11843	25.33	50

DAILY PROGRAMMES:
Network I (Saigon A) on 1090/4808/6116/6165/7245/9754/11843 kc/s: **Vietnamese** 21.45–00.15, 03.00–05.30, 08.00–15.00.
Network II (Saigon B) on 838/7265 kc/s: 21.45–01.30, 03.30–06.45, 09.00–15.00.
Vietnamese: 21.45–23.15, 00.15–01.30, 03.30–05.00, 05.45–06.45, 09.00–12.15, 14.15–15.00. – **English:** 23.15–23.45, 05.00–05.45, 12.45–14.15. – **Thai:** 23.45–00.15, 12.15–12.45.
Network III (Saigon C) on 1360/9620 kc/s: 21.45–01.15, 03.30–07.15, 09.00–15.00.
Vietnamese: 21.45–23.00, 03.30–04.00, 05.00–05.30, 14.30–15.00. – **French:** 23.00–24.00, 04.00–05.00, 10.30–14.30. – **Cambodian:** 10.00–10.30, 24.00–01.15. – **Chinese:** 05.30–07.15, 09.00–10.00.
Network IV (Saigon D) on 750 kc/s: 09.00–13.00 in Chinese.
ANN.: Vietnamese: "Day la Dai Tieng Noi Nuoc Vietnam Cong-Hoa, phat thanh tu Saigon". **French:** "Ici VTVN Saigon, la voix de la République du Vietnam". **English:** "This VTVN. The Voice of the Republic of Vietnam broadcasting from Saigon".
INT.-SIG.:



REGIONAL STATIONS (in Vietnamese only):
R. VTVN HUÉ: 22.00–00.15, 03.15–05.30, 10.00–14.00 1150 kc/s 261 m 1 kw – 7205 kc/s 41.63 m 1 kw
R. VTVN DALAT: 22.00–00.15 03.15–05.30, 10.00–13.00. 1440 kc/s 208 m 1 kW – 6090 kc/s 49.26 m 0.2 kW
R. VTVN NHATRANG: 22.00–00.15, 03.15–05.30, 10.00–13.00, 1440 kc/s 208 m 1 kW – 9720 kc/s 30.86 m 0.2 kW

★ VIETNAM (Peoples Democratic Republic) ★

L.T.: GMT+8 h. – **Pr. L.:** Vietnamese. – **Po.:** 15.000.000.

THE VOICE OF VIETNAM (Go.)
ADDR.: No. 58. Quan-Su Street, Hanoi.

STATIONS: Hanoi.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
1010	297	7020	42.73	11760	25.51	15020	19.97
1200	297	9765	30.72	11840	25.34		
4732	63.61	9840	30.49	12055	24.89		

HOME SERVICE in Vietnamese: 22.30–23.00, 23.20–23.30, 23.45–01.20, 04.00–04.45, 09.00–10.00, 10.50–11.30, 13.30–14.00, 15.30–16.00. – **N.:** 22.40, 00.15, 04.15, 11.00, 13.50. – **Vietnamese Music:** 22.30, 00.35, 04.00, 15.30. – **Music from friendly countries:** 00.50–01.20 – **Foreign Music:** 23.45–00.15, 09.30–10.00.
FOREIGN SERVICE on 1200, 9840, 11840 kc/s: 23.00–23.30, 01.30–02.15, 04.00–06.00, 08.30–09.30, 12.00–15.45. – **Cambodian:** 04.00–04.30, 13.00–13.30. – **English:** 01.30–02.00, 08.30–09.30 (dictation news), 13.30–14.00. – **French:** 04.30–05.00. – **Laotian:** 23.00–23.30, 05.00–05.30, 12.30–13.00. – **Thai:** 12.00–12.30, 14.30–15.00. – **Musical Programmes: Vietnamese Music** (with ann. in English): 02.00–02.15, 15.30–15.45. – **Foreign Music** (with ann. in French): 05.30–06.00, 15.00–15.30. – **ANN.: E.:** "This is the Voice of Vietnam, Hanoi". – **V.** by QSL-card or letter.

PACIFIC

★ AUSTRALIA ★

L.T.: E. Aust.: GMT+10 h., S. Aust.: GMT+9½ h., W. Aust.: GMT+8 h. – **Pr. L.:** English. – **Po.:** (June 1960): 10.280.742. – **Rcvrs.:** (August 1960): 2.291.519. – **E.C.:** 230/240 V.; A.C., 50 c/s.

AUSTRALIAN BROADCASTING COMMISSION (ABC)
Constituted under the Broadcasting and Television Act 1942–60. The Australian National Broadcasting Sce. prgrs. are the responsibility of the A.B.C., which is responsible to the Postmaster-General. The technical sces. in Radio are provided by the Postmaster-General's Dept., and for TV by the A.B.C. Engineering Dept. –
FI.: By annual appropriation from the Commenwealth Go's budget.
ADDR.: Head Office: Australian Broadcasting Commission, 264 Pitt St., Box 487 G.P.O., Sydney. – **Overseas Sce.:** Radio Australia, P.O. Box 428G, G.P.O., Melbourne. – **Cable:** ABCOM SYDNEY.
L.P.: Chairman: Sir Richard Boyer, Vice-Chairman: E. R. Dawes, C.M.G. Gen. Mgr.: Charles Moses, C.B.E. Asst. Gen. Mgr. (General): A. N. Finlay, Asst. Gen. Mgr. (Prgr.): C. Semmler. Asst. Gen. Mgr. (Adm.): T. S. Duckmanton. Controller of News: W. Hamilton. Controller of Finance: R. G. Gifford. Dir. Publicity and Concerts. Charles Buttrose. Dir. Music: H. Cannon (acting). Dir. Drama & Features: P. O. Longhlin. Dir. Education: C. Bull. Dir. Talks: A. Carmichael. Supvr. Religious B'casts: Dr. J. Munro. Dir. Rural B'casts: J. Douglass. Supvr. Sporting B'casts: B. Kerr. Supvr. Children's Hour: J. Appleton. Dir. Prgr.s (Overseas): P. W. R. Homfray.

THE NATIONAL BROADCASTING SERVICE
MEDIUM WAVE SERVICE [1]= Metropolitan [2]= Regional

Cal	kc/s	kW	Name/Location	h. of tr.
Australian Capital Territory				
2CY[2]	850	10	Canberra	20.00(Sun.20.30)–13.30(Sat.14.00)
2CN[1]	1540	2	Canberra	20.00–13.00(daily)
New South Wales				
CR[2]	550	10	Orange	20.00(Sun.20.30)–13.30(Sat.14.00)
2ML[2]	560	0.2	Murwillumbah	20.00(Sun.20.30)–13.30(Sat.14.00)
2FC[1]	610	10	Sydney	20.00–13.30(Sat.14.00)
2NU[2]	650	10	Tamworth	20.00(Sun.20.30)–13.30(Sat.14.00)
2CO[2]	670	10	Albury	
2KP[2]	680	10	Kempsey	
2NR[2]	700	50	Grafton	
2TR[2]	720	0.2	Taree	
2BL[1]	740	10	Sydney	20.00(Sun.20.30)–13.00
2NB[2]	760	1	Broken Hill	20.30(Sun.21.00)–14.00(Sat.14.30)
2BA[2]	810	10	Bega	20.00(Sun.20.30)–13.30(Sat.14.00)
2GL[2]	820	10	Glen Innes	20.00(Sun.20.30)–13.30(Sat.14.00)
2NC[2]	1230	10	Newcastle	20.00(Sun.20.30)–13.00
2NA[2]	1510	10	Newcastle	20.00–13.30(Sat.14.00)
2LG[2]	1570	0.2	Lithgow	20.00(Sun.20.30)–13.30(Sat.14.00)
2WN[2]	1580	2	Wollongong	
Victoria				
3WV[2]	580	50	Horsham	20.00(Sun.20.30)–13.30(Sat.14.00)
3AR[1]	620	10	Melbourne	20.00–13.00(Sat.14.00)
3LO[1]	770	10	Melbourne	20.00(Sun.20.30)–13.00
3GL[1]	830	10	Sale	20.00(Sun.20.30)–13.30(Sat.14.00)
3WL[2]	1570	0.2	Warrnambool	
Queensland				
4QL[2]	540	10	Longreach	20.00(Sun.20.30)–13.30(Sat.14.00)
4QR[1]	590	10	Brisbane	20.00(Sun.20.30)–13.00
4AT[2]	600	0.5	Atherton	20.00(Sun.20.30)–13.30(Sat.14.00)
4QN[2]	630	50	Townsville	
4QA[2]	720	2	Mackay	
4QS[2]	750	10	Toowoomba	
4QG[1]	790	10	Brisbane	20.00–13.30(Sat.14.00)
4RK[2]	840	10	Rockhampton	20.00(Sun.20.30)–13.30(Sat.14.00)
4QB[2]	910	2	Maryborough	
4QY[2]	940	2	Cairns	
4MI[2]	1080	0.2	Mount Isa	
4GM[2]	1570	0.2	Gympie	
4SO[2]	1590	0.2	Southport	
South Australia				
5CK[2]	640	10	Port Pirie	20.30(Sun.21.00)–14.00(Sat.14.30)
5CL[1]	730	5	Adelaide	20.30–14.00(Sat.14.30)
5AN	890	2	Adelaide	20.30(Sun.21.00)–14.00(Sun.13.30)
5PA[2]	1160	2	Penola	20.30(Sun.21.00)–14.00(Sat.14.30)
5LN[2]	1530	0.2	Port Lincoln	
5WM[2]	1580	0.05	Woomera Rocket Range	
5MG[2]	1580	0.2	Mt. Gambier	
5MV[2]	1590	2	Renmark	

Western Australia				
6WA[2]	560	50	Wagin	22.00(Sun.22.30)–15.30(Sat.16.00)
6NM[2]	600	0.2	Northam	
6AL[2]	650	0.4	Albany	
6WF[1]	690	5	Perth	22.00–15.30(Sat.16.00)
6GF[2]	720	2	Kalgoorlie	22.00(Sun.22.30)–15.30(Sat.16.00)
6WN[1]	810	10	Perth	22.00(Sun.22.30)–15.00
6GN[2]	830	2	Geraldton	22.00(Sun.22.30)–15.30(Sat.16.00)
Tasmania				
7ZL[1]	600	10	Hobart	20.00–13.30(Sat.14.00)
7QN[2]	630	0.2	Queenstown	20.00(Sun.20.30)–13.30(Sat.14.00)
7NT[2]	710	10	Launceston	20.00(Sun.20.30)–13.30(Sat.14.00)
7ZR[1]	940	10	Hobart	20.00(Sun.20.30)–13.00
Northern Territy				
8DR[2]	650	2	Darwin	20.30(Sun.21.00)–14.00(Sat.14.30)
8KN[2]	670	0.05	Katherine	
8TC[2]	680	0.05	Tennant Creek	
8AL[2]	1530	0.2	Alice Springs	

Papua/New Guinea: 9PA 1250 kc/s 0.5 kW Port Moresby: 20.00(Sun. 20.30)–13.00(Sat.14.00).

FM SCE.: (Exp.): D.: 01.00–13.00, exc.Adelaide: D. 01.30–13.30.

Melbourne	90.4 mc/s 2 kW	Sydney	92.1 mc/s 2 kW
Brisbane	94.1 mc/s 1 kW	Adelaide	97.3 mc/s 3 kW

DOMESTIC SHORT WAVE SERVICE:

ADDR.: Sydney: A.B.C., Box 487, G.P.O. – **Melbourne:** A.B.C., Box 1686, G.P.O. – **Brisbane:** A.B.C., Box 293E, G.P.O. – **Perth:** A.B.C., Box 190D, G.P.O. – **Port Moresby:** A.B.C., Port Moresby.

STATIONS: Sydney: VLI (2 kW). – **Melbourne:** VLH (10 kW) & VLR (5 kW). – **Brisbane:** VLQ (10 kW) & VLM (10 kW). – **Perth:** VLW (2 kW) & VLX (10 kW). – **Port Moresby:** VLT (2 kW).

Call	kc/s	m	h. of tr.
VLI6	6090	49.26	20.00(Sun.20.30)–13.30(Sat.14.00)
VLH11	11880	25.25	20.00(Sun.20.30)–23.15(Sat.23.45)
VLH15	15230	19.70	23.30(Sat.23.00)–08.15
VLH9	9680	30.99	08.30–13.30(Sat.14.00)
VLR6	6150	48.78	20.00 (Sun. 20.30)–22.30, 08.30–13.00
VLR9	9680	30.99	22.45–08.30
VLQ9	9660	31.06	20.00(Sun.20.30)–13.30(Sat.14.00,Sun.13.00)
VLM4	4920	60.98	20.00(Sun.20.30)–13.30(Sat.14.00)
VLW6	6140	48.96	22.00(Sun.22.30)–00.00, 10.30–15.30(Sat.16.00)
VLW9	9610	31.22	00.15–10.15
VLX9	9610	31.22	as VLW6
VLX15	15425	19.45	00.15–10.15
VLT6	6130	48.94	20.00(Sun.20.30)–22.00, 07.00–13.30(Sat.14.00)
VLT9	9520	31.51	22.15–06.45

N.: 20.00 (not Sun.), 20.45, 21.15 (Sun.21.30), 21.45(Sun. 22.45), 00.00 (not Sat. or Sun.), 02.30, 03.30, 06.00 (not Sun.), 09.00, 11.00, 12.30, 13.00 (BBC & Aust.). – **NOTE:** Although times are in **GMT**, calendar days apply to the Ea. States of Aust. only.

ANN.: "This is the A.B.C....". – **INT.-SIG.:** Three Gongs (C.F.A.). – **PUB.:** "TV News-Times", R. Australia Prgr. Guide, Schools Broadcasts booklets.

OVERSEAS SERVICE – R. AUSTRALIA

ADDR.: Radio Australia, P.O. Box 428G., G.P.O., Melbourne.

TRANSMITTERS: Shepparton: VLA, VLB 100 kW, VLC, VLD 50 kW, VLY 10 kW. **Lyndhurst:** VLG 10 kW.

VLA6, VLB6, VLC6, VLD6, VLG6:
6070 kc/s 49.42 m, 6170 kc/s 48.62 m.

VLA7, VLB7, VLC7, VLD7, VLG7:
7135 kc/s 42.05 m, 7190 kc/s 41.72 m, 7205 kc/s 41.64 m, 7215 kc/s 41.58 m, 7220 kc/s 41.55 m, 7240 kc/s 41.44 m, 7280 kc/s 41.21 m.

VLA9, VLB9, VLC9, VLD9, VLG9:
9510 kc/s 31.55 m, 9520 kc/s 31.51 m, 9540 kc/s 31.45 m, 9560 kc/s 31.38 m, 9570 kc/s 31.35 m, 9580 kc/s 31.32 m, 9615 kc/s 31.20 m, 9630 kc/s 31.15 m, 9635 kc/s 31.14 m, 9650 kc/s 31.09 m, 9680 kc/s 30.99 m.

VLA11, VLB11, VLC11, VLD11, VLG11:
11710 kc/s 25.62 m, 11740 kc/s 25.55 m, 11760 kc/s 25.51 m, 11770 kc/s 25.49 m, 11810 kc/s 25.40 m, 11840 kc/s 25.34 m, 11850 kc/s 25.32 m, 11870 kc/s 25.27 m, 11880 kc/s 25.25 m, 11900 kc/s 25.21 m, 11945 kc/s 25.12 m.

VLA15, VLB15, VLC15, VLD15, VLG15:
15120 kc/s 19.84 m, 15160 kc/s 19.79 m, 15175 kc/s 19.77 m, 15180 kc/s 19.76 m, 15200 kc/s 19.74 m, 15210 kc/s 19.72 m, 15220 kc/s 19.71 m, 15230 kc/s 19.70 m, 15240 kc/s 19.68 m, 15315 kc/s 19.59 m, 15320 kc/s 19.58 m, 15330 kc/s 19.57 m,15425 kc/s 19.45 m.

VLA17, VLB17, VLC17, VLD17, VLG17:
17710 kc/s 16.94 m, 17790 kc/s 16.86 m, 17800 kc/s 16.85 m, 17840 kc/s 16.82 m, 17860 kc/s 16.80 m, 17865 kc/s 16.80 m.

VLA21, VLB21, VLC21, VLD21, VLG21:
21475 kc/s 13.97 m, 21540 kc/s 13.93 m, 21590 kc/s 13.90 m, 21600 kc/s 13.89 m, 21680 kc/s 13.84 m.

VLY25:
25675 kc/s 11.68 m, 25735 kc/s 11.66 m, 25820 kc/s 11.62 m.

SERVICES: I: So., So. East, So.We. Asia – II: Ea. Asia, No. Pacific Islands – III: So. Pacific Islands – IV: Mid-Pacific Islands – V: British Isles and Europe – VI: No. America (Ea.) – VII: No. America (We.) – VIII: Africa.

	ENGLISH:	kc/s			kc/s
I	22.14–00.15	25735, 21540, 15210	IV	02.29–07.30**	21600
				07.45–09.45	7190
	00.15–06.00	25735, 21540, 17840		20.00–22.00	15315
V	06.00–07.30[1]	11710			
	07.45–09.00[2]	11710			
	06.00–07.30	25735, 15180	VI	12.14–13.15	11710
	07.30–09.15	25735, 21540, 15180	VII	15.14–16.15	11810
VIII	04.29–05.45	21680			
	09.15–09.45	25735, 15180			
	09.45–09.59	25735		**INDONESIAN:**	kc/s
	09.59–12.00	25735, 9580	I	06.00–07.30	21540, 17840
	12.00–13.00	9580		09.29–11.00	11740, 7220
	13.00–13.29	11740, 9580, 7220		22.14–23.15	17840, 15330
	13.29–14.30	11760, 9580		**FRENCH:**	kc/s
	14.30–15.00	11760, 11740, 9580, 7220	I	23.15–00.15	17840, 15330
III	23.15–00.15	21680			
IV	00.25–01.30	17710, 15180			
	15.00–17.30	11740, 9580 7220		**MANDARIN:**	kc/s
I	11.00–13.00	11740, 7220			
	02.29–07.30*	21600			
II	07.44–10.00	11810		**THAI:**	kc/s
	11.00–12.00	11810, 9570	I	13.29–14.30	11740, 7220
	12.00–14.00	9570			
	20.59–23.00	15240			
III	06.00–09.15	11710		**JAPANESE:**	kc/s
	20.00–22.00	11840	II	09.50–11.00	11810, 9570

*) Sat. only **) Sun. to Fri. 1) April-September. 2) Oct.-March. Radio Australia frequencies are subject to alteration, and the details of any proposed changes are given in the transmissions concerned for three days before becoming effective and in "Transmission Parade" and "DX-ers Calling".

FIXED PROGRAMMES in English:
N.: 00.15, 02.30, 04.00, 05.00, 05.15, 07.00, (08.30[2]), 09.00, 10.00 Dictation, 11.00, 12.00, 12.45, 13.00, 14.00, 15.15, 16.15, 17.15, 20.00, 21.00, 21.45, 22,45, 23.30. – **MAILBAGS:** Pacific/Asia/Africa Edition: Sat. 21.15. Sun.: 00.45, 04.45, 11.30, 16.45. British Isles/European Edition: 06.45[1], 08.15[2]. No. American Edition: 12.30, 15.30.

N. COMMENTARY: Mo.–Fri.: 07.10, 08.40[2], 09.10, 11.10, 13.10, 14.10, 16.25. – **REQUEST PRGR.: "Listeners Choice":** Sun. 11.15. Sat. 14.10. Sun.–Fri. 14.30. **"Music by Request":** 23.40. **"For Ships at Sea":** Sat. 08.00. – **SPORT:** Results: Mo.–Sat. 08.30. Descriptions and results of major sporting events in Australia are broadcast on 21600 kc/s every Sat. 02.29–07.30. – **STOCK EXCHANGE REPORT:** Fri.: 08.45, 15.00. – **DX PROGRAMME:** Sat. 22.00. Sun.: 07.15[1], 08.45[2], 13.00, 16.00. – **NATIONAL MUSIC:** Music by Australian artists is broadcast regularly in all transmissions. – **PRGR. PREVIEWS** A prgr. summary is given at the start of each daily transmission. A preview of prgr.'s is given three minutes before the close of transmissions.

FIXED PROGRAMMES in other languages.
FRENCH: N.: 23.30, 00.45. – **N. Commentary:** Tues.–Sat.: 23.42, 00.57. – **Mailbag:** Sun. 00.00, 01.00.
INDONESIAN: N.: 09.30, 10.30, 22.45, – **N. Commentary:** Mo.–Fri. 10.42. – **Mailbag:** Sun.: 06.30, 10.00.– **"English Lessons for Indonesians":** Tues., Thurs.: 06.30, 10.00, 13.30. Sat. 02.00, 10.00.
JAPANESE: N.: 10.30. – **Mailbag:** Sun. 10.10. – **DX-Talk:** Sun. 10.47. – **Question Box:** Tues. 10.10. – **Magazine:** Sat. 10.10.
MANDARIN: N.: 12.15, 12.45. – **N. Commentary:** Mo.–Fri. 12.27. – **Mailbag:** Sun. 12.00.
THAI: N.: 14.00. – **N. Commentary:** Mo.-Fri. 14.15. – **Mailbag:** Sun. 13.45.

ANN.: "This is Radio Australia transmitting the Overseas Service from the Melbourne studios of the A.B.C." – "You are tuned to R. Australia, the Overseas Service of the A.B.C." Transmitter call-signs, freq's and wavelengths are given at frequent intervals.

TUNING AND INT. SIG.: Musical Box playing "Waltzing Matilda" for five minutes preceeding transmissions. – Prgr. commence with the Melbourne Post Office Clock chimes and the laugh of the Kookaburra. – V. Listener's reports are welcomed and should cover at least 15 min. prgr.-reception data. All correct reports are confirmed by QSL-card. – **PUB.:** A prgr.-booklet is available free upon application to "R. Australia".

PRIVATELY OWNED COMMERCIAL BROADCASTING STATIONS –

Associated in a body called: **The Australian Federation of Commercial Broadcasting Stations: Adr.:** 47, York Street, Sydney. – **L.P.:** Exec. Officer: M. Baker. – **The Australian Broadcasting Control Board** is a Go. Authority responsible for the planning of the broadcasting sce.'s ensuring that technical equipment and prgr. sce.'s are of adequate

standards and determining power, frequency and periods of operation of stations.
Addr.: 497 Collins Str., Melbourne, C. 1. **Cable**: Conborad, Melbourne. – **L.P.**: Chairman: R. G. Osborne. Members: R. B. Mair; R. A. Yeo; J. R. Darling (Part-time); R. M. White (Part-time); Secr.: J. O'Kelly. Dir. Tec.: D. McDonald. Dir. Prgr.: D. A. Jose.
2CH is controlled by the New South Wales Council of Churches; 2SM by the Roman Catholic Church; 5KA and 5AU by the Methodist Church.
Abbreviations: Amalg.=Amalgamated. Ass.=Associated. Me.=Melbourne. B. Casters=Broadcasters. Transc.=Transcontinental.

NEW SOUTH WALES Call letter: 2---.

Call	kc/s	kW	D.Prgr.	Stations
BH	660	0.2	20.00–13.00	**R. Silver City, Broken Hill**
KA	780	2/1	20.00–12.30	**Trans. Broadc. Corp., Katoomba**
[1]GB	870	5	19.30–13.15	**Broadc. St. 2GB, Sydney**
LM	900	2/1	20.00–12.30	**Richmond River Broadc., Lismore**
XL	920	2/1	20.00–13.00	**Cooma B. Casters**
UE	950	5	24 hours	**R. 2UE, Sydney**
KM	980	2/1	20.00–12.30	**R. Kempsey**
GZ	990	2	20.00–13.30	**Country Broadc. Sce., Orange**
KY	1020	5	19.30–14.00	**2KY Broadc. St., Sydney**
CA	1050	2	20.00–13.00	**Canberra B. Casters**
RG	1070	2/1	20.30–12.30	**2RG B. Casters, Griffith**
MO	1080	1	20.00–12.30	**2MO Gunnedah**
[2]UW	1110	5/2.5	24 hours	**Commonwealth Broadc. Corp., Sydney**
AD	1130	2/1	20.00–12.30	**New England B. Casters, Armidale**
HD	1140	2	19.30–14.00	**Airsales Broadc. Co., Newcastle**
WG	1150	2	20.00–13.00	**Riverina Broadc. Co., Wagga**
CH	1170	5	19.30–14.00	**Amalg. Wireless, Sydney**
NZ	1190	2	19.30–13.00	**Northern B. Casters, Inverell**
GF	1210	2/1	20.00–13.00	**Grafton Broadc. Co.**
DU	1250	2	19.30–13.35	**Western B. Casters, Dubbo**
[3]SM	1270	5	19.30–13.00	**Broadc. St. 2SM, Sydney**
TM	1300	2	20.00–13.30	**Tamworth R. Development Co.**
[4]LF	1340	2	20.00–13.00	**Young B. Casters, Young**
NX	1360	2	19.30–13.00	**Hunter B. Casters, Newcastle**
LT	1370	0.5	20.00–12.30	**Lithgow B. Casters**
GN	1380	2	20.00–13.00	**Goulbourn Broadc. Co.**
[5]PK	1400	2	20.00–13.00	**Parkers Broadc. Co.**
[6]KO	1410	2	24 hours	**R. 2KO, Newcastle**
WL	1430	2	19.30–13.30	**Wollongong Broadc.**
MW	1440	2/1	20.00–12.30	**Tweed R.&Brodac. Co., Murwillumb.**
[7]MG	1450	1	19.30–12.30	**Mudgee Broadc. Co.**
NM	1460	0.5	19.30–13.00	as 2NX – 1360 kc/s
BE	1480	1	21.00–12.00	**Station 2BE, Bega**
AY	1490	2	20.00–13.30	**Amalg. Wireless, Albury**
[8]BS	1500	2	20.00–13.30	**Bathurst B. Casters**
QN	1520	2	20.30–12.30	**Southern Riverina B. Casters, Deniliq.**
[9]VM	1530	2	20.00–12.30	**Moree Broadc.&Development Co.**
RE	1560	2/0.5	20.00–12.30	**Manning Valley Broadc., Taree**

VICTORIA Call letter 3---.

UL	880	2/1	19.30–13.30	**Ass. Broadc. Sce., Warragul**
UZ	930	5	19.30–14.00	**Nilsen's Broadc. Sce., Melbourne**
BO	960	2/1	19.30–14.00	**Amalg. Wireless, Bendigo**
HA	1000	2	20.00–13.30	**We. Province R., Hamilton**
DB	1030	5	19.30–15.00	**Herald Broadc. St., Melbourne**
LK	1090	2	19.30–13.30	
CS	1130	2/1	20.00–12.30	**Colac Broadc. Co.**
KZ	1180	5	20.00–13.30	**3KZ Broadc. Co., Melbourne**
YB	1210	2/1	20.00–13.30	**Ass. Broadc. Sce., Warrnambool**
TR	1240	2	19.00–14.00	**Latrobe Valley&Gippsland B. Casters**
SR	1260	2	19.30–13.30	**Ass. Broadc. Sce., Shepparton**
[10]AW	1280	5	19.00–15.00	**3AW Broadc. Co., Melbourne**
BA	1320	2/1	20.00–14.00	**Ballarat B. Casters**
SH	1330	2	20.00–13.00	**Central Murray B. Casters, Swan Hill**
GL	1350	2/1	19.30–13.00	**Geelong Broadcasters**
XY	1420	5	24 hours	**Efftee B. Casters, Melbourne**
CV	1440	2/1	20.00–13.00	**C. Victoria B. Casters, Maryborough**
MA	1470	2	20.30–12.30	**Sunraysia B. Casters, Mildura**
AK	1500	0.5	20.00–08.00	**Melbourne B. Casters**
NE	1600	2/1	19.30–14.00	**Wangaratta Broadc. Co.**

QUEENSLAND Call letter 4...

KQ	690	2/1	24 hours	**Broadc. St. 4KQ, Brisbane**
TO	780	2/1	19.30–13.30	**Amalg. Wireless, Townsville**
GR	860	2	19.30–13.00	**Gold. R. Sec., Toowoomba**
WK	880	2/1	20.00–12.30	**Warwick Broadc. Co.**
VL	920	2/1	20.30–12.30	**Charleville Broadc. Co.**
[11]AY	960	2/1	19.00–13.30	**Ayr B. Casters, Ayr.**
RO	1000	2	19.30–13.00	**Rockhampton Broadc. Co.**
CA	1010	2/1	20.00–13.00	**Amalg. Wireless, Cairns**
IP	1010	1	20.00–12.30	**Ipswich Broadc. Co.**
SB	1060	2		**South Burnett Broadc. Co., Kingaroy**
LG	1100	2	20.00–04.00	**C. Queensland Broadc. Corp.,**
			07.00–12.00	**Longreach**
BC	1120	2	24 hours	**Commonwealth Broadc. Co., Brisbane**
MB	1160	2	19.30–13.00	**Maryborough Broadc. Co.**
AK	1220	2	19.00–13.00	**Brisbane B. Casters**
BK	1290	2		
BU	1330	2	20.00–12.30	**Bundaberg B. Casters**
GY	1350	2/0.5	20.00–12.00	**Gympie Broadc. Co.**
[12]MK	1380	2	19.30–12.30	**Mackay Broadc. Sce.**
BH	1390	2	19.00–13.15	**B. Casters (Aust.), Brisbane**
ZR	1480	2/1	20.30–12.30	**Maranoa Broadc. Co., Roma**

SOUTH AUSTRALIA Call letter 5...

RM	800	2	20.15–13.30	**River Murrey, B. Casters, Renmark**
DN	970	2	20.00–13.45	**Hume B. Casters, Adelaide**
PI	1040	2	20.00–13.45	**Midlands Broadc. Sce's, Crystal Brook**
KA	1200	2	24 h	**5KA Broadc. Co., Adelaide**
AD	1310	2	20.00–14.30	**Advertiser Broadc. Network, Adelaide**
SE	1370	0.5	20.00–13.45	**South Eastern Broadc. Co., Mt. Gambier**
AU	1450	0.5	20.15–13.30	**Port Augusta Broadc. Co., Port Augusta**
MU	1460	0.5	20.15–12.45	**Murray Bridge Broadc. Co.**

WESTERN AUSTRALIA Call letter 6...

VA	780	2	22.30–06.00	**Albany Broadcasters**
			08.00–14.00	
KG	860	2	22.30–06.00	**Whitfords**
			08.00–14.00	**Broadc. Network, Perth**
PR	880	2	21.30–15.00	**Nicholsons Broadc. Sce., Perth**
BY	900	2	22.00–14.30	**W.A.B. Casters, Perth**
NA	920	2	22.00–17.00	**Westland Broadc. Co.**
TZ	960	2	22.00–15.00	as 6PR
AM	980	2	22.00–15.00	as 6KG
PM	1000	2	22.00–16.00	as 6KG
GE	1010	2	22.30–05.30	09.00–14.30 as 6KG
WB	1070	2	22.00–06.00	09.00–14.30 as 6BY
IX	1080	2	21.45–16.00	as 6BY
MD	1100	2	22.00–06.00	09.00–14.30 as 6BY
CI	1130	2	22.00–06.30	10.00–15.00 as 6PR
KY	1210	2	21.30–18.00	as 6NA

TASMANIA Call letter 7...

SD	540	0.5	21.00–23.00	**North East Tasmania R.**
			06.30–12.15	**B. Casters, Scottsdale**
BU	560	0.5	20.30–12.30	**Burnie Broadc. Sce.**
QT	720	0.5	21.00–03.00	**West Coast**
			06.00–12.30	**B. Casters, Queenstown**
[13]HO	860	2	19.30–13.30	**Comm. B. Casters, Hobart**
AD	900	0.5	21.00–13.00	**N. Tasmania B. Casters, Devonport**
EX	1010	2	20.00–13.00	**7EX Pty., Launceston**
HT	1080	2	19.30–13.30	**Metropolitan B. Casters, Hobart**
[14]LA	1100	2	20.00–13.00	**R. Launceston 7LA**

NORTHERN TERRITORY. Call letter 8...

DN	1240	2	21.00–13.00	Darwin Broadcasters Pty. Ltd.

[1]) 136 Phillip St., Sydney. – **L.P.**: Mgr.: B. C. Button.
[2]) Edward House, 365 Kent Str., Sydney. – **L.P.**: Mgr.: F. E. Levy. – V. by QSL-card.
[3]) 257 Clarence Str., Sydney. – **L.P.**: Gen. Mgr.: W. Stephenson. – V. by QSL-card.
[4]) Lovell St., Young. – **L.P.**: Managing Dir.: M. G. K. Barlin. – V. by QSL-card.
[5]) 307 Clarinda Str., Parkes. – **L.P.**: Gen. Mgr.: N. T. Spicer. – V. by letter.
[6]) C. M. L. Bldg., 110 Hunter Str., Newcastle. – **L.P.**: Managing Dir.: S. P. P. Lamb. – V. by QSL-card.
[7]) Wellington Rd., Mudgee. – **L.P.**: Managing Dir.: R. B. Camplin.
[8]) 109 George Str., Bathurst. – **L.P.**: Gen. Mgr.: E. N. Williams.
[9]) Balo Str., Moree. – **L.P.**: Mgr.: R. Morrisby. – V. by letter.
[10]) 382 Latrobe Str., Melbourne. – **L.P.**: Gen. Mgr.: M. F. E. Wright. – V. by QSL-card.
[11]) Main Offices: Penney's Bldg., Flinders Str., Townsville. – **L.P.**: Managing Dir.: J. F. Gleeson. – V. by letter.
[12]) 38 Gordon Str., Mackay. – **L.P.**: Gen. Mgr.: M. E. Low. – V. by QSL-card.
[13]) 52 Newtown Rd., Hobart. – **L.P.**: Mgr.: A. B. Brown. Dir. Tec.: G. Bell. – V. by letter.
[14]) Box 635 G., P.O., Launceston. – **L.P.**: Mgr.: R. E. Ward. – V. V. by QSL-card.

★ CANTON ISLAND ★

L.T.: GMT+11 h. – **L.**: English.
RADIO STATION KIBS (The Hermit Crab Network)
(Non-profit, volunteerly operated, U.S. Govt. owned equipment).
ADDR.: F. A.A. Canton Island, Phoenix Group, S. Pacific; U.S.P.O. 06–50000. – **L.P.**: Dir. Gen.: J. V. Cox, Dir. Tec.: C. J. Miesel.
HOME SCE.: KIBS 1510 kc/s 199 m 0.025 kW: Tues. to Sun.: 00.00–10.00. Mo. 19.00–24.00. All prgr.'s recorded or taped.
ANN.: "Radio Station KIBS, The Hermit Crab Network, 1510 on your dial; Canton Island". – V. by letter. R.p. appreciated.

★ CHATHAM ISLANDS (N.Z. Territory) ★

L.T.: GMT+$^{3}/_{4}$h. – Pr.L.: English.
CHATHAM ISLANDS BROADCASTING SERVICE, Waitangi
HOME SCE.: ZLC 2196 kc/s 136.6 m 0.05 kW. D. 21.45. Local news, news on shipping and airrivals from New Zealand.

★ CHRISTMAS ISLAND (British) ★

L.T.: GMT÷9 h. – Pr.L.: English. – E.C.: 240 V., A.C., 3-phase.
CHRISTMAS ISLAND BROADCASTING SERVICE (Pr.)
Owned and operated by RAF. The station is run entirely by voluntary help. CIBS transmits to British Forces in the Central Pacific and is run by members of all three of H. M. Forces, in conjunction with the Forces Entertainment Sce. and the Transcription Sce. of the BBC.
F.I.: RAF funds (Go.). – ADDR.: R.A.F. Central Pacific, B.F.P.O. 170. – L.P.: St. Dir.: Lt. D. S. Shaw, R. E. Senior Producer: K. Norris. Dir. Tec.: R. Wright. (All change annually).
HOME SCE. in English: 1450 kc/s 207 m 0.05 kW. Mo.–Fri.: 03.00–08.00, Sat. 21.00–09.00. Sun. 21.30–08.00. – N.: D. 06.00. – V. by letter. Reports welcomed, in English. – Prgr.: sched.: By request

★ COOK ISLANDS (N.Z. Territory) ★

L.T.: GMT÷$10^{1}/_{2}$ h. – Pr.L.: English, Cook Isl. Maori. – Po.: 17.000. – Rcvrs.: 250. – E.C.: 230 V., A.C., 60 c/s.
RADIO RAROTONGA (Go.)
ADDR.: Social Development Dept. Radio Service, Rarotonga. Te.: 24. – L.P.: Dir. Prgr.: P. F. Henderson. Dir. Tec.: W. Scarborough.
HOME SCE.: ZK1ZA 5050 59.41 m 0.35 kW: Thurs. 04.30–06.30. N. 04.50 (English), 05.50 (Maori). – Folklore Music: 04.30–04.50.
ANN.: "This is ZK1ZA Radio Rarotonga". – INT.-SIG.: Cook Islands Drum Beats. – V. by QSL-card.

★ FIJI (British) ★

L.T.: GMT+12 h. – Pr. L.: Fijian, Hindustani. – Po.: 374.284. – Rcvrs.: 20.117. – E.C.: A. C., 240/415 V., 50 c/s.
FIJI BROADCASTING COMMISSION (Independent Statutory Body, 50% comm., 50% cultural)
ADDR.: Broadcasting House, P.O. Box 334, Suva. Cable: "Broadcom" – L.P.: Chairman: R. L. Munro, LLB. Mgr.: J. S. W. Stannage. Dir. Prgr.: G. H. King. Dir. Tec.: T. C. Agar.
HOME SCE.: W. 18.30–10.30 (Sat. 11.00). Sun. 18.30–10.00.
VRH2 Suva 840 kc/s 357 m 0.4 kW – VRH3 Lautoka 890 kc/s 337.1 m. 2.5 kW – VRH Suva 930 kc/s 322 m 2 kW – VRH4 Suva 3980 kc/s 75.38 m 0.5 kW (R. Fiji). – VRH5 5980 kc/s 50.17 m 0.25 kW – VRH6 6005 kc/s 49.96 m 0.25 kW.
Simultaneously tr. in **English, Fijian, Hindustani – English:** N.: D. 18.45*, 19.00 (BBC), 19.45, 20.00 (BBC), 21.15 (Sun. BBC), 24.00 (Sun. ABC), 01.15 (NZBS), 01.30*, 07.00 (BBC)* – Wrp.: After N.*, 00.30, 09.15 (Sun. 09.00).
ANN.: "This is the Fiji Broadc. Commission". – INT.-SIG.: Beat of Fijian Lali (Log Drum). – V. by QSL-card, but not sought. – F.PL.: Two 10 kW sw.-tr's in 1961.

★ GILBERT and ELLICE ISLANDS ★ (British Colony)

L.T.: GMT+12 h. – Pr.L.: English, Gilbertese, Ellice. – Po.: 40.000. – Rcvrs.: 144. – E.C.: 240 V., D.C.
GILBERT AND ELLICE ISLANDS BROADCASTING SERVICE (Go.)
ADDR.: Information Office, Tarawa, Gilbert Islands (via Melbourne, Australia). Cable: Information, Tarawa. – L.P.: Information Officer, Chief Wireless Officer.
HOME SCE.: Sun. 04.30–05.15*. Fri. 07.30–09.30**. Radio Tarawa VTW 844 kc/s 355 m 0.05 kW – VSZ10 6050 kc/s 49.59 m 0.1 kW.
* Gilbertese & Ellice on s.w. ** English on m.w.
ANN.: E.: "This is station VTW, Tarawa". – V. by letter. – F.PL.: 2.5 kW tr. into vertical incidence array shortly.

★ HAWAII (U. S. State) ★

L.T.: GMT÷10h. – Pr.L.: English, Japanese, Filipino, Chinese, Okinawan. – Po.: 620.346. – Rcvrs.: 455.000. – E.C.: 120/208/240/480 V., A.C., 60 c/s.
VOICE OF AMERICA RADIO STATION IN HAWAII
ADDR.: Voice of America, Washington 25, D.C., USA.
STATIONS: Short Wave: Honolulu 100 kW: 09.00–16.30.
9650 kc/s 31.09 m – 11775 kc/s 25.45 m.
D.PRGR.: See USA.
09.00–09.30 English 10.30–11.00 Ukrainian 11.30–12.00 Mandarin
09.30–10.00 Russian 11.00–11.30 English 12.00–16.30 English
10.00–10.30 English
ANN.: "This is the Voice of America Transmitter, Honolulu".
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA. – V. by QSL-card.

PRIVATE STATIONS (Comm.) – Abbreviations: E=English, J=Japanese, F=Filipino, C=Chinese, O=Okinawan.

Call	kc/s	kW	Network	Call	kc/s	kW	Network
1) KMVI	550	1	NBC, AI	2) KHBC	970	1	CBS
2) KGMB	590	5	CBS	10) KOOD	990	5	Indep.
3) KKAA	650	10	MBS	11) KHVH	1040	5	Kaiser
4) KULA	690	10	Indep.	12) KIPA	1110	1	AI-II
5) KGU	760	10	NBC	13) KOHO	1170	1	Indep.
6) KIKI	830	0.25	Indep.	14) KLEI	1240	0.25	Indep.
7) KIMO	850	1	Indep.	15) KNDI	1270	5	Indep.
8) KAIM	870	1	Indep.	16) KPOI	1380	5	Indep.
9) KAHU	920	1	Indep.	17) KTOH	1490	0.25	NBC-AI

1) **Maui Publishing Co.**, P.O. Box 374, Wailuku, Maui. – **L.P.:** St. Mgr.: R. E. Mawson. – **D. Prgr.:** 15.00–09.00 in E, F, J.
2) **Hawaiian Broadc. System**, 1534 Kapiolani Blvd., Honolulu. **L.P.:** Gen. Mgr.: M. F. Warren. – **D. Prgr.:** W. 15.30–10.00, Sun. 16.00–09.00 in E. KHBC: Hilo (15.00–10.00).
3) **R. Hawaii, Inc.**, 575 Kamoku St., Honolulu. – **L.P.:** Gen. Mgr.: H. Davis. – **D. Prgr.:** 15.00–10.00 in E, F.
4) **KULA Broadc. Co.**, 850 Kapiolani Blvd., Honolulu. – **L.P.:** Gen. Mgr.: J. Burnett. – **D. Prgr.:** 24 h. in E.
5) **Advertising Publishing Co.**, 605 Kapiolani Blvd., Honolulu. – **L.P.:** St. Mgr.: W. O. Paine. – **D. Prgr.:** 14.30–10.00 in E, F, J.
6) **Kiki Ltd.**, 320 Ward St., Honolulu. – **L.P.:** St. Mgr.: A. J. Rossi. – **D. Prgr.:** 24 h. in E, C, F, J, O.
7) **Island Broadc. Co.**, 498 Kilohana St., Hilo, Hawaii. – **L.P.:** Owner: J. Jaeger. – **D. Prgr.:** 24 h. in E, J, F.
8) **Christian Broadc. Co.**, 1148-12th Ave., Honolulu. – **L.P.:** Gen. Mgr.: C. Kerr. – **D. Prgr.:** 15.00–09.00 in E, F, J.
9) **Rural Broadc. Co.**, 94–1088 Farrington Highway, Waipahu, Oahu. **L.P.:** Gen. Mgr.: H. E. Chu. – **D. Prgr.:** 15.00–09.00 in E, C, F, J.
10) **Ala Moana Broadc. Co.**, 1450 Ala Moana Blvd., Honolulu. – **L.P.:** Gen. Mgr.: T. Scott. – **D. Prgr.:** 15.00–10.00 in E, J.
11) **Kaiser Hawaiian Village Radio and Television, Inc.**, 1290 Ala Moana Blvd., Honolulu. **Cable:** KHVH. – **L.P.:** Pres.: H. J. Kaiser. Gen. Mgr.: R. C. Block. Dir. Tec.: D. O. Hunter. – **D. Prgr.:** 15.00–10.00 in E. – **F.PL.:** Increase 10 kW. – **V.** by letter. Return postage desirable. Address reports to P. V. Taylor, Dir. Music.
12) **Big Island Broadc. Co.**, P.O. Box 1602, Hilo, Hawaii. – **L.P.:** Gen. Mgr.: R. W. Jaderstrom. – **D. Prgr.:** D. 24 h. exc. Tues. 10.00–15.00 in E, F, J.
13) **Windward Broadc. Co.**, 1140-A-12th Ave., Honolulu. – **L.P.:** Gen. Mgr.: H. Y. Tateishi. – **D. Prgr.:** 15.00–09.00 in E, F, J.
14) **Oahu Broadc. Co.**, Kailua Shopping Center, Kailua, Oahu. – **L.P.:** Gen. Mgr.: J. Irvin. – **D. Prgr.:** 15.30–10.00 in E.
15) **James T. Ownby, D.B.A.**, P.O. Box 1516, Honolulu. – **L.P.:** Gen. Mgr.: D. Abbott. – **D. Prgr.:** 16.00–10.00 in E.
16) **KPOI Broadc. Co.**, 1701 Ala Wai Blvd., Honolulu. – **L.P.:** Gen. Mgr.: F. Hollinger. – **D. Prgr.:** 24 h. in E.
17) **Garden Island Publishing Co.**, Box 1748, Lihue, Kauai. – **L.P.:** Mgr.: T. Eto. – **D. Prgr.:** 15.30–20.30 in E, J, F.

★ MARIANAS ISLANDS (U.S. Territory) ★

L.T.: GMT+10 h. – Pr.L.: English, Chamorro, Philippine dialects. – Po.: 100.000. – Rcvrs.: 60.000. – E.C.: 110/220 V., A.C., 60 c/s.

RADIO GUAM Pr. Comm.)
F.I.: By adv. – ADDR.: P.O. Box 368, Agana, Guam. Cable: Kuam. Te.: 7961. – L.P.: Pres. & Gen. Mgr.: H. M. Engel. Prgr. Dir.: Gil Bahr.
HOME SCE.: KUAM 610 kc/s 1 kW.
English: 20.00 (Sun. 21.00)–14.00 (Sat. 15.00). – N.: Every h. on the h. ANN.: "Kuam Agana, Guam". – INT.-SIG.: Voice & Jingle Form (Orchestra & Voices). – V. by letter. – F.PL.: Increase power. – Prgr.-schedules free on request. Write to: Gil Bahr, Prgr. Dir., P.O.Box 368, Agana, Guam, M.I. (Pacific Ocean).

★ MARSHALL ISLANDS (U.S. Trust Terr.) ★

L.T.: GMT+12 h. – L.: English.

STATION WSZO (operated by the Majuri Trust Territory).
1500 kc/s 200 m 0.2 kW: D. approx. 02.00–04.00.
D. Prgrs. in Marshallese: Boat arrivals, departures, itineraries, and local news, together with educational items.

ARMED FORCES RADIO & TV SCE. (Eniwetok and Kwajalein): see USA.

★ NEW CALEDONIA (French) ★

L.T.: GMT+11 h. – Pr.L.: French. – Po.: 70.000. – Rcvrs.: 5.000. – E.C.: 110/120 V., A.C., 50 c/s.

RADIO NOUMEA (Go.-R.diff. Télévision Française)

ADDR.: B.P. 327, Noumea. Cable: Radio Noumea. Te.: 2856. – L.P.: Dr. Le Leizour. Adm.: Mlle M. Charbonneaux. Dir. Tec.: Th. Siret.

HOME SERVICE:

1400 kc/s 214 m 1 kW W.: 19.00–20.00, 00.00–02.00, 07.00–10.30
6035 – 49.71 – 4 – Sun. 21.00–02.00, 07.00–10.30.

N.: 19.30, 01.00, 08.00. – Folklore Music: Thurs. 07.15, Fri. 07.00. – Wrp.: D. 01.00, 01.55, 08.00, 09.00. – ANN.: "Ici Nouméa, Radio-diffusion Télévision Française". – INT.-SIG.: Call of the cagou bird. V. by QSL-card. – PUB.: Weekly Prgr.schedule.

★ NEW GUINEA (Netherlands) ★

L.T.: GMT+9½ h. – Pr.L.: Dutch, Malayan. – Po.: 700.000.

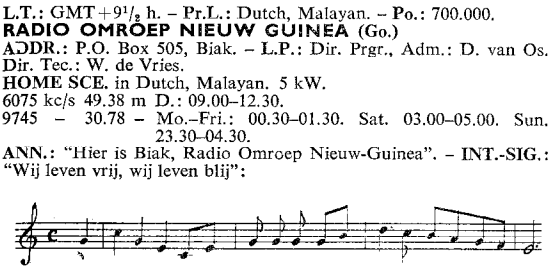
RADIO OMROEP NIEUW GUINEA (Go.)

ADDR.: P.O. Box 505, Biak. – L.P.: Dir. Prgr., Adm.: D. van Os. Dir. Tec.: W. de Vries.

HOME SCE. in Dutch, Malayan. 5 kW.

6075 kc/s 49.38 m D.: 09.00–12.30.
9745 – 30.78 – Mo.–Fri.: 00.30–01.30. Sat. 03.00–05.00. Sun. 23.30–04.30.

ANN.: "Hier is Biak, Radio Omroep Nieuw-Guinea". – INT.-SIG.: "Wij leven vrij, wij leven blij":



V. by QSL-card. R.p. – F.PL.: Local & Regional st's at Hollandia, Sorong, Merauke. Local st's at Manokwori, Fak Fak.

★ NEW ZEALAND ★

L.T.: GMT+12 h. – Pr.L.: English, Maori. – Po.: 2.371.760. – Rcvrs.: 580.000. – E.C.: 220/240 V., A.C., 50 c/s.

NEW ZEALAND BROADCASTING SERVICE (Go.)

FI.: By license payments and adv. AD.: St's other than YA, YC and Y2 st's broadc. adv. D. exc. Sun.

ADDR.: The Director, New Zealand Broadcasting Service, P.O.Box 98, Wellington. Cable: "Broadserv." Te.: 70-999. – L.P.: Dir.: J. H. E. Schroder. Chief Engineer: W. L. Harrison.

HOME SERVICE in English: *) Private st.

		kc/s	m	kW	h. of tr.
Wellington	2YA	570	526	60	17.00–11.20
Wellington	2YC	660	455	60	05.00–11.00
Christchurch	3YA	690	434	10	18.00–11.20
Invercargill	4YZ	720	416	5	19.00–11.20
Auckland	1YA	760	395	10	18.00–11.20
Dunedin	4YA	780	384	10	18.00–11.20
Rotorua	1YZ	800	375	10	19.00–10.30
Invercargill	4ZA	820	366	10	18.00–11.00
Masterton	2XB	840	357	2	05.30–11.30
Napier	2YZ	860	349	5	19.00–10.30
Auckland	1YC	880	341	10	05.00–11.00
Dunedin	4YC	900	333	10	05.00–11.00
Greymouth	3YZ	920	326	10	19.00–10.30
Palmerston Nth	2ZA	940	319	2	18.00–11.00
Christchurch	3YC	960	312	10	05.00–11.00
Whangarei	1XN	970	309	2	18.00–10.30
Wellington	2ZB	980	306	10	18.00–12.00
Gisborne	2XG	1010	297	2	18.00–10.30
Dunedin	4ZB	1040	288	10	18.00–12.00
Auckland	1ZB	1070	280	10	18.00–12.00
Christchurch	3ZB	1100	273	10	18.00–12.00
Wellington	2YD	1130	265	2	07.00–10.00
Timaru	3XC	1160	258	2	18.00–10.30
Gisborne	2XM*	1180	254	0.09	07.00–10.00
Wanganui	2XA	1200	250	2	18.00–10.30
Auckland	1YD	1250	240	2	05.00–10.00
Hawkes Bay	2ZC	1280	234	2	18.00–11.00
Hamilton	1XH	1310	229	2	18.00–11.00
Nelson	2XN	1340	224	2	18.00–10.30
New Plymouth	2XP	1370	219	2	18.00–10.30
Wellington	2YX	1400	214	1	07.30–10.30
Dunedin	4XD*	1430	210	0.06	06.00–10.30
Rotorua	1ZC	1520	197	0.75	05.30–10.30

N.: D. (BBC): 18.00, 19.00, 20.00, 06.30, 11.00, 09.03 (NZBS). – N. in Maori: Sun. 06.00. – Wrp.: D.: 18.15, 19.15, 21.00, 00.30, 06.25, 09.00. – Rel.: W. 22.10, Sun. 23.00, 07.00. – L.L.: French: Mo. 02.45 Feb.–Aug.).

FOREIGN SERVICE: Radio New Zealand 7.5 kW.

ADDR.: The Director, Radio New Zealand, P.O.Box 2396, Wellington. Cable: "Natbroadcast". – L.P.: St. Mgr.: A. L. Curry. Prgr. Officer: P. C. Nisbet.

	kc/s	m		kc/s	m		kc/s	m
ZL7	6080	49.34	ZL3	11780	25.47	ZL14	17820	16.84
ZL2	9540	31.45	ZL4	15280	19.63			

Two frequencies are used simultaneously, and as the prgr.sched. is intended primarily for Australia and the Pacific Islands, the present aerials are beamed in those two directions.

To Pacific Islands:

D. 17.00–05.45 Home Sce. prgr.
D. 06.00–08.45 Special prgr. on 6080, 9540 kc/s.

To Australia:

D. 20.00–05.45 Home Sce. prgr.
D. 09.00–11.45 Special prgr. on 6080, 9540 kc/s.

"Calling Antarctica" (a prgr. of news, sporting Review and "Family Corner" directed to N.Z. scientific personnel in the Ross Dependency). Sun. 08.15–08.45 on 11780 kc/s (subject to change). **"Calling Samoa"** (in Samoan): Mo. 20.40–20.55 on 15280 kc/s (subject to change), Tues. 07.00–07.15 (repeat) on 6080, 9540 kc/s.

"Calling The Cook Islands and Niue" (in Rarotongan): Wed. 07.10–07.25, Wed. 08.00–08.15 (repeat) on 6080, 9540 kc/s.

New Zealand News: Mo.-Fri. 00.33. Mo.-Sat.: 07.30, 08.40, 09.30. Sun. 09.03. – Religious: W. (in N.Z.): 22.10. Sun. (in N.Z.): 23.00. – Folklore Music: Thurs. 07.45, 09.45. Sun. 06.45, 10.15 – DX Programmes: 1st Wed. in month: 06.40, 10.30. – Mbg.: Fri.: 07.00, 10.00. – Prgr. Previews: 21.30, 00.50, 06.10, 07.40, 08.40, 09.00, 09.40, 11.40. ANN.: "This is New Zealand Calling" – INT.-SIG.: Call of the N.Z. Bell bird (at 5 second intervals). – V. by QSL-card (sea mail). – PUB.: "The N. Z. Listener" (Home Sce.) 30 sh. (N. Z.) yearly. R.N.Z. Prgr. sched. (Free to overseas listeners on request).

★ NORFOLK ISLAND (Austral. Terr.) ★

L.T.: GMT+11½ h. – Pr.L.: English. – Po.: 1000.

NORFOLK ISLAND BROADCASTING SERVICE (Go.)

ADDR.: Civil Aviation, Norfolk Island. 1500 kc/s 200 m 0.07 kW.

★ SAMOA ★

L.T.: GMT+11 h. – Pr.L.: Samoan, English. – Po.: 125.000. – Rcvrs.: 4500. – E.C.: 115–120 V., A.C., 50 c/s.

WESTERN SAMOA

BROADCASTING STATION 2AP (Go.)

ADDR.: Broadcasting Department, Apia, Western Samoa. Cable: "Voxpac". – L.P.: Dir.: F. A. Brunt. Prgr. Supervisor: L. Levi (Acting). Technician-in-charge: J. K. Brown.

HOME SERVICE: 2AP Apia 1420 kc/s 211.3 m 2 kW.
English: 17.45–20.00, 05.30–06.30. – Samoan: 06.30–08.30.
ANN.: "2AP, Apia, Western Samoa". – V. by QSL-card.

AMERICAN SAMOA (U.S. Territory)

RADIOSTATION WVUV (Go.)

ADDR.: Office of Information and Adult Education, Pago Pago. Te.: 648
HOME SCE.: English, Samoan: WVUV 1120 kc/s 267.8 m 0.25 kW. Mo.–Fri.: 18.00, 22.00, Tues.–Sat. 05.00–08.00, Sat. 17.00–Sun. 03.00, Sun. 21.00–Mo. 02.00.

N.: English: Mo.–Fri. 18.30; Tues.–Sat. 05.45; Sat. 22.00, 23.00, 24.00, Sun. 01.00, 02.00. Samoan: Mo.–Fri. 19.45, 06.30, 07.30. Sat. every h. on the h. from 22.00–02.00. – Folklore Music: Mo.–Fri. 19.00, 07.00. – Wrp.: W. 05.00. – ANN.: E.: "This is Station WVUV, Pago Pago, American Samoa". – INT.-SIG.: St. identification, time break, and theme every 15 mins. from Mo. to Fri. – V. by letter. – PUB.: Weekly information paper and a daily news sheet in English.

★ SOLOMON ISLANDS (British) ★

L.T.: GMT+11 h. – Pr.L.: English, Pidgin-English, Vernaculars. – Po.: 112.000. – Rcvrs.: 500. – E.C.: 240 V., A.C., 50 c/s.

SOLOMON ISLANDS BROADCASTING SERVICE (Go.)

FI.: By Go., license fees and adv. – AD.: 15 min. each evening exc. Sun. – ADDR.: P.O. Box 115, Honiara. – Cable: Broadcasts. Te.: 225. – L.P.: Broadc. Officer: R. F. Calvert. Broadc. Eng.: L. MacLachlan. Asst. Broadc. Officer: W. Bennett.

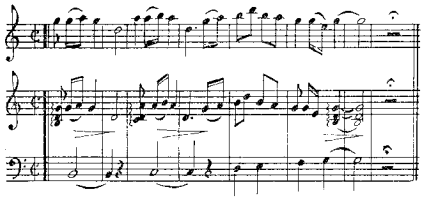
HOME SCE.: Mo–Fri. 08.00–10.30. Sat.–Sun. 09.00–10.30.
VQO 1030 kc/s 291 m 0.66 kW – VQO2 5960 kc/s 50.34 m 5 kWd.
English: W. 09.00–10.30. N.: W. 09.30. – Pidgin-English: Mo.–Fri. 08.00–09.00. N.: Mo.-Fri. 08.15. – Folklore Music: Tues. 08.30. – Wrp.: 10.30.

ANN.: "This is the Solomon Islands Broadcasting Sce. VQO and sw.-tr. VQO2". – V. by QSL-card. Report must contain sufficient detail to establish authenticity. – F.PL.: Extention of broadc. hours to 11.15. – PUB.: Prgr.schedule free on request.

★ TAHITI (French) ★

L.T.: GMT÷10 h. – Pr.L.: French, Tahitian, Maori. – Po.: 80.000. – Rcvrs.: 16.000. – E.C.: 110 V., A.C., 60 c/s.

RADIO TAHITI (Go.)
ADDR.: R.diff.-Télévision Française, Station de Tahiti, Rue Dumont d'Urville 410, Papeete. Cable: Radio Tahiti. Te.: 243. – L.P.: Dir. M. Espinasse. – HOME SCE.: 6135 kc/s 48.90 m 4 kW. Mo.–Fri. 18.15–18.45 (for schools); W. 21.45–23.00, 03.30–07.30. Sun. 20.00–23.00, 03.30–07.30. – French: 22.00 (Sun. 20.00)–23.00, 05.00–07.30. – Rel.: Sun. 20.00–20.15, 03.45–05.00. – Wrp.: D. 22.00, 04.00.
ANN.: "Ici Radio Tahiti, Poste National Français". – INT.-SIG.: Tahitian flute (vivo) and Drums.



V. by QSL-card. – PUB.: Prgr.-schedule free on request.

★ TONGA ISLANDS (Brit.) ★

L.T.: GMT+12 h.

TONGIAN BROADCASTING COMMISSION (Go.)
A 10 kW station at Nukualofa under construction. Planned to operate on 1020 kc/s in 1961.

NORTH AMERICA

incl. Mexico and Puerto Rico

★ CANADA ★

L.T.: See table: World Time. – Pr.L.: English, French. – Po.: 18.000.000. – Rcvrs.: 9.660.000. – E.C.: 110/220 V., A.C., 60 c/s.

CANADIAN BROADCASTING CORPORATION INTERNATIONAL SERVICE (Publicly owned)
ADDR.: Canadian Broadcasting Corporation, International Service, P.O. Box 6000, Montreal, Canada. Cable: "Intrad".
L.P.: C. R. Delafield. Supervisor of Sections: A. L. Pidgeon. Supervisor of Eng. Sce.: J. M. Laporte. Supervisor of Inf. Sce.: H. Shane. Transcription Sce's: Head English-Language Section: P. A. Tallman. Head French-Language Section: J. M. Marcotte. Head Latin American Section: J. Octeau.

STATIONS: All international s.w. broadcasts from Canada are directed by CBC International Service, which is owned by the people of Canada. All prgrs. are produced in Montreal and beamed from two 50 kW transmitters at Sackville, New Brunswick, near the Atlantic Coast. The CBC International Service was inaugurated Feb. 25, 1945.

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
CKNA	5970	50.25	CHFO	9740	30.80	CKBR	15275	19.64
CHAY	5990	50.08	CKXA	11705	25.63	CKCS	15320	19.58
CKRZ	6060	49.50	CHOL	11720	25.60	CHSB	17710	16.94
CKOB	6090	49.26	CKRA	11760	25.51	CHRX	17735	16.92
CHAC	6160	48.70	CKEX	11900	25.21	CKNC	17820	16.84
CKLP	9585	31.30	CKNK	11945	25.12	CHYS	17865	16.80
CHLS	9610	31.22	CKUS	15105	19.86	CKRP	21600	13.89
CKLO	9630	31.15	CKCX	15190	19.75	CHLA	21710	13.82
CHLR	9710	30.90	CKSR	15255	19.67			

EUROPEAN SERVICE (from Nov. 6th, 1960)

Time	Prgr.	kc/s
11.25–11.45	Czech	17820, 21600
11.45–12.00	Programmes for Europe	
12.00–12.30	Forces Relay (W.)	
12.30–13.00	Programmes for Europe (W.	
12.00–13.00	Forces Relay (Sun.)	
13.00–13.15	Programmes for Europe	17830, 21600
13.15–13.30	Polish	
13.30–14.00	Programmes for Europe	
14.00–14.30	Russian	
14.30–14.45	Ukrainian	
14.45–15.00	Ukrainian	
15.00–16.00	Programmes for Europe	
16.00–16.15	Hungarian	
16.15–16.30	Slovak	
16.30–17.00	Czech	
17.00–17.45	Polish	
17.45–18.00	News for Ships at Sea	
18.00–18.30	**German**	
18.30–19.00	Czech	
19.00–19.15	Swedish (Mo.–Fri.)	15320, 17820
19.15–19.30	Norwegian (Mo.–Fri.)	
19.30–19.45	Danish (Mo.–Fri.)	
19.45–20.00	Dutch (Mo.–Fri.)	15320
19.00–19.30	Russian (Sat., Sun.)	15320, 17820
19.30–19.45	Ukrainian (Sat., Sun.)	
19.45–20.00	Ukrainian (Sat., Sun.)	15320
20.00–20.30	**French**	11720, 15320
20.30–21.00	**English**	
21.00–21.15	**English** (Sat., Sun.)	
21.00–21.15	Italian (W.)	
21.15–21.30	Russian	
21.30–21.35	Closing	

NORTHERN CANADA SERVICE (East & Central):

22.00–22.45	**French & English**	9585, 11720

CARIBBEAN & LATIN AMERICAN SERVICE:

23.00–23.30	**English**	11760, 15190
23.30–24.00	Portuguese	
00.00–00.45	Spanish	

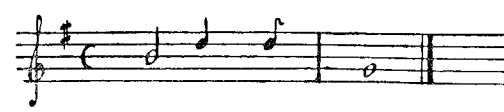
NORTHERN CANADA SERVICE (Central & West):

01.00–07.05	**English**	9585, 11720

AUSTRALASIAN SERVICE:

08.25–09.05	**English**	9630

ANN.: "This is the International Service of the Canadian Broadcasting Corporation". "Ici Radio Canada". "This is Canada".
INT.-SIG.: First four notes of the National Anthem "O Canada"



MESSAGE TO LISTENERS: The CBC International Service greets shortwave listeners everywhere, and welcomes reports, queries, and comments on reception and programs. Please write to: Box 6000, Montreal. – V. by letter or QSL-card. – PUB.: CBC-Radio-Canada prgr.sched. (ill.) published seven times a year and sent free on request

CBC HOME SERVICE, NATIONAL SERVICE (Publicly owned).
Abbreviations: Nf=Newfoundland. NS=Nova Scotia. PEI=Prince Edward Isl. NB=N. Brunswick. P=Pacific. Qu=Quebec. O=Ontario. M=Manitoba. Sa=Saskatchewan. Al=Alberta. BC=British Columbia. W=Winnipeg. Pr=Province. Prince R=Prince Rupert. NWT=No. W. Territories.

ADDR.: **Head Office:** 140 Wellington Street, Ottawa. – **International Service:** Radio-Canada Building, 1425 Dorchester Street W., Montreal. **French Networks Division:** Radio-Canada Building, 1425 Dorchester Street W., Montreal. – **English Networks Division:** 354 Jarvis Street, Toronto. – **Newfoundland Reg.:** T. A. Building, St. John's. – **Maritime Reg.:** United Services Building, 100 Sackville Street, Halifax. – **Prairie Reg.:** 541 Portage Avenue, Winnipeg. – **British Columbia Reg.:** 701 Hornby Street, Vancouver. – **Ottawa Area:** Chateau Laurier, Ottawa. – **Northern and Armed Forces Services:** Commonwealth Bldg. 77 Metcalfe Street, Ottawa. – **Engineering Headquarters:** 5253 Decarie Boulevard, Montreal. – **Offices outside Canada:** CBC Representative at the United Nations, c/o the United Nations, New York, N.Y., USA; CBC Representative in London, The Langham, Portland Place, London W.1, England; CBC Representative in Paris, Hotel Napoleon, 38 Avenue Friedland, Paris 8e, France.

L.P.: Pres.: A. Ouimet. Vice Pres.: Capt. W. E. S. Briggs. Asst. to Pres.: Col. R. P. Landry. Vice Pres. Programming: E. S. Hallman. Vice Pres. Adm. & Finance: M. Carter. Comptroller: V. F. Davies. Vice Pres. Engineering & Operations: J. P. Gilmore. Dir. of Engineering: W. G. Richardson. Vice Pres. Corporate Affairs: R. C. Fraser. Coordinator Information Services: W. T. Armstrong. Gen. Mgr. Reg. Broadc.: C. Jennings. Gen. Mgr. English Networks: H. G. Walker. Gen. Mgr. French Networks: M. Ouimet.

CBC Representatives: Paris: B. Lafleur. London: S. Moore. United Nations: J. J. Dunn.

ENGLISH NETWORKS: Basic Stations
Medium Waves:

	Call	kc/s	kW			Call	kc/s	kW	
1)	CBK	540	50	Regina-Sa	10)	CBT	990	1	Gr. Falls-Nf
2)	CBN	640	10	St.John's-Nf	11)	CBW	990	50	Winnipeg-M
3)	CBU	690	10	Vanc.-BC	12)	CBX	1010	50	Edmonton-Al
4)	CBL	740	50	Toronto-O	13)	CBA	1070	50	Sackvil.-NB
5)	CBXA	740	0.25	Edmonton-Al	14)	CBI	1140	5	Sydney-NS
6)	CBY	790	1	Corner B.-Nf	15)	CFPR	1240	0.25	Prince R. BC
7)	CJBC	860	50	Toronto-O	16)	CBH	1340	0.1	Halifax-NS
8)	CBO	910	5	Ottawa-O	17)	CBG	1450	0.25	Gander-Nf
9)	CBM	940	50	Montr.-Qu	18)	CBE	1550	10	Windsor-O

No. 7 Dominion Netw., other numbers Trans Canada Netw.

1) **Addr.:** P.O. Box 347, Regina, Sa. – **D. Prgr.:** W. 13.00–07.06. Sun. 16.00–08.06.
2) **Addr.:** T. A. Building, Duckworth Street, St. John's, Nf. – **D. Prgr.:** 11.00–03.35. – **V.** by QSL-card.
3) **Addr.:** 701 Hornby St., Vancouver, B.C. – **D. Prgr.:** W. 14.00–08.05. Sun. 15.00–08.05.
4) **Addr.:** P.O. Box 500, Toronto, O. – **D. Prgr.:** 12.00(Sun. 13.00)–06.00.
5) **Addr.:** P.O. Box 290, Edmonton, Al. – **D. Prgr.:** 13.45–08.00.
6) **Addr.:** CBC Corner Brook, Nf. – **D. Prgr.:** 11.00–03.35.
7) **Addr.:** P.O. Box 500, Toronto, O. – **D. Prgr.:** 11.00(Sun. 13.45)–06.00.
8) **Addr.:** P.O. Box 1045, Ottawa, O. – **D. Prgr.:** 12.00(Sun. 13.00)–05.05.
9) **Addr.:** R. Canada Bldg., 1425 Dorchester Str. West, Montreal. – **D. Prgr.:** 12.00(Sun. 13.00)–05.03.
10) **Addr.:** CBC Grand Falls, Nf. – **D. Prgr.:** 11.00–03.35.
11) **Addr.:** P.O. Box 160, Winnipeg, M. – **D. Prgr.:** 12.45(Sun. 14.45)–07.00.
12) **Addr.:** P.O. Box 290, Edmonton, Al. – **D. Prgr.:** 13.45(Sun. 14.45)–07.00.
13) **Addr.:** P.O. Box 175, Halifax, N.S. – **D. Prgr.:** 12.45–04.10.
14) **Addr.:** Box 700, Sydney, N.S. – **D. Prgr.:** 11.00(Sun. 12.45)–04.10. **V.** by QSL-card.
15) **Addr.:** 343 W 2nd Ave., Prince Rupert, B.C. – **D. Prgr.:** W. 15.00–08.00. Sun. 16.00–07.00.
16) **Addr.:** P.O. Box 175, Halifax, N.S. – **D. Prgr.:** W. 11.30–04.00. Sun. 12.45–04.10.
17) **Addr.:** 98 Sullivan Ave., Gander, Nf. – **D. Prgr.:** 11.00–03.35.
18) **Addr.:** Security Bldg., Windsor, O. – **D. Prgr.:** 11.00–05.05.

FM:

CBC-FM	99.1 mc/s	11.9	kW	Toronto, O.
CBM-FM	100.7 –	3.86	–	Montreal, Qu.
CBO-FM	103.3 –	0.38	–	Ottawa, O.
CBU-FM	105.7 –	1.4	–	Vancouver, BC.

SHORT WAVES:

2) CBNX 5970 kc/s 50.25 m 0.3 kW St. John's (relay CBN)
3) CBUX 6160 – 48.70 – 0.5 – Vancouver (relay CBU).

Note: Although times are in GMT, calendar days apply to Canada only.

N.: CBNX: W.: 11.00, 11.30, 13.00, 14.00(Sat.), 15.30, 16.30, 17.00, 19.00(Mo.–Fri.), 21.30(Mo.–Fri.), 22.30, 23.15, 03.00. Sun.: 12.30, 13.00, 15.45, 17.00, 19.00, 23.30, 03.00.
CBUX: W.: 14.00, 15.00, 15.30(Sat.), 16.00, 16.30, 17.00, 18.15(Sat.), 20.15(Mo.–Fri.), 22.30(Mo.–Fri.), 23.00(Sat.), 03.00, 06.00, 07.57. Sun.: 16.00, 17.00, 21.00, 23.30, 03.00, 06.00, 07.57.
Folklore Music: CBNX: Mo., Fri. 00.30, Tues. 14.30. **CBUX:** Wed. 17.15, Fri. 05.30, Sun. 22.00. – **Wrp.:** With N. and at sign-off. **Marine Wrp.:** CBNX: W. 00.25. CBUX: Mo.–Fri.: 20.55, 08.00. Sat.: 14.55, 18.25, 08.00. Sun.: 15.00, 16.03, 23.42, 01.27, 08.00.
V.: CNBX/CBUX: by QSL-card unless extra inf. is requested, in which case letters of explanation are sent.

PRIVATE BASIC ST'S (TRANS CANADA NETW.)

Call	kc/s	kW		Call	kc/s	kW	
CFNB	550	10	Frederict., NB	CKSO	790	10	Sudbury, O
CJKL	560	5	Kirkland L., O	CFJC	910	10/1	Kamloops, BC
CKPR	580	5	Ft. William, O	CKWS	960	5	Kingston, O
CFCH	600	1	No. Bay, O	CJIC	1050	0.25	Ste. Marie, O
CJAT	610	1	Trail, BC	CHSJ	1150	10	S. John, NB
CKOV	630	1	Kelowna, BC	CJOC	1220	10/5	Lethbridge, Al
CKGB	680	10	Timmins, O				

NORTHERN SERVICE: Medium Waves:

Call	kc/s	kW	
CBXH	860	0.04	Ft. Smith, NWT
CBXF	860	0.04	Ft. Nelson, BC
CBXG	860	0.04	Watson Lake, Yukon
CHAK	860	1	Inuvik, NWT
CFYT	1230	0.1	Dawson, Yukon
CHFC	1230	0.25	Ft. Churchill, Man
CFWH	1240	0.25	Whitehorse, Yukon
CFYK	1340	0.15	Yellowknife, NWT
CFGB	1340	0.25	Goose Bay, Nf.
CFHR	1490	0.04	Hay River, NWT

NORTHERN SERVICE: Shortwave: On 9585/11720 kc/s:
D. 22.00–22.45 to Ea. Arctic **French, English.** – D. 01.00–07.00 to C. & We. Arctic **English.**
N. in French: 22.00. – **N. in English:** D.: 01.00, 02.00, 03.00, 04.00*, 05.00, 06.00, 07.00. * incl. Wrp.
FRENCH NETWORK:
CBF 690 kc 50 kW Montreal CBV 980 kc 5 kW Quebec
CBJ 1580 kc 10 kW Chicoutimi CBAF 1300 kc 5 kW Moncton
FM: CBF 95.1 mc/s 3.86 kW Montreal
CBAF (Basic St.): Addr.: Assumption Bldg., 232 St. George Str., Moncton, NB. – D. Prgr.: 11.00–04.30.
F.PL.: Low power relay tr's throughout the country. – **PUB.:** "CBC Times" (English) (Eastern, Prairie, British Columbia editions); weekly, and "La Semaine á Radio-Canada" (French); weekly.

PRIVATELY OWNED COMMERCIAL STATIONS

CANADIAN ASSOCIATION OF RADIO AND TELEVISION BROADCASTERS: Head Office, 108, Sparks Str., Ottawa 4.
Medium Waves: 107 less 5 kW stations not mentioned. **FM:** 28 stations.

	Call	kc/s	kW		Call	kc/s	kW
1)	CHLN	550	5d	47)	CHNS	°960	10d
2)	CFNB	550	50	48)	CKWS	960	5d[1])
3)	CFRA	560	5d[1])	49)	CKCH	970	5d
4)	CJKL	560	5d	50)	CFPL	980	10
5)	CJFX	580	5d	51)	CHEX	980	5d
6)	CKEY	580	5/1d	52)	CKRM	980	10D/5N
7)	CKPR	580	5/1[1])	53)	CKNW	980	5d
8)	CKY	580	50d	54)	CKGM	980	10d
9)	CKUA	580	10	55)	CFRB	°1010	50d
10)	VOCM	590	10/1	56)	CFGP	1050	10d
11)	CFCF	600	5d[1])	57)	CHUM	1050	5/2.5d
12)	CFQC	600	5d	58)	CKSB	1050	10d
13)	CJOR	600	5d	59)	CFCN	°1060	10d
14)	CHNC	610	5d	60)	CJLR	1060	5d
15)	CKTB	610	5d	61)	CHOK	1070	5/1d
16)	CKCK	620	5d	62)	CHED	1080	10/1d
17)	CFCY	630	5d	63)	CHEC	1090	5d
18)	CKRC	630	5d	64)	CKWX	°1130	50d
19)	CHLT	630	10/5d	65)	CKXL	1140	10d
20)	CHFA	680	5d	66)	CHSJ	1150	5d
21)	CJOB	680	10/2.5	67)	CKOC	1150	5d
22)	CKGB	680	10/5d	68)	CKX	1150	5/1
23)	CFRG	710	5	69)	CKTR	1150	5/1d
24)	CKAC	730	50d	70)	CJOC	1220	10/5d
25)	CKLG	730	10d	71)	CKCW	1220	10d
26)	CKSO	790	10/5d	72)	CKDA	1220	10d[1])
27)	CHAB	800	10d	73)	CKBL	1250	5d
28)	CHRC	800	10d[1])	74)	CFRN	1260	10
29)	CJAD	800	10d	75)	CJCB	°1270	5/1d[1])
30)	CKLW	800	50d[1])	76)	CHWK	1270	10d
31)	CJLX	800	5d	77)	CJMS	1280	10/5d
32)	CKOK	800	10/0.5d	78)	CFAM	1290	5d
33)	CKVL	850	10d[1])	79)	CKCV	1280	5d
34)	CHML	900	5d	80)	CKSL	1290	5d
35)	CHNO	900	10/1d	81)	CKOY	1310	5/1d
36)	CJBR	900	10d[1])	82)	CHQM	1320	10d
37)	CJVI	900	10d	83)	CKLB	1350	5d[1])
38)	CKBI	900	10d	84)	CKLC	1380	5d[1])
39)	CFCJ	910	10/1	85)	CFUN	1410	10
40)	CJCH	920	10/5d	86)	CKOM	1420	5d
41)	CFBC	930	5d	87)	CKFH	1430	5d
42)	CJCA	930	10/5d[1])	88)	CJNB	1460	10d
43)	CJON	930	10d	89)	CKRB	1460	10/5d
44)	CJGX	940	10/1	90)	CFOR	1570	10d[1])
45)	CKBB	950	5/2.5d	91)	CHUB	1570	10d[1])
46)	CFAC	960	10d	92)	CHVC	1600	5d

[1]) FM. ° Short Wave. d' Directional aerial. D Day. N Night.

Short Waves:	kc/s	kW	m.w.	Name
75) CJCX	6010	1	1270	Cape Breton Broadcasters Ltd.
47) CHNX	6130	0.5	960	Maritime Broadcasting Co.
59) CFVP	6030	0.1	1060	The Voice of the Prairies, Ltd.
55) CFRX	6070	1	1010	Rogers Radio Broadcasting Co.
64) CKFX	6080	0.01	1130	CKWX Radio, Ltd.

Medium Waves:

1) **R. Trois Rivieres Inc.,** 522 Bonaventure Str., Trois Rivieres, Qu. **D. Prgr.:** W. 09.50–04.00. Sun. 13.00–04.00.
2) **R. CFNB,** 67 York St., Fredericton, N.B. – **D. Prgr.: W. 10.30–04.15. Sun. 11.50–04.15.**
3) **CFRA Ltd.,** 150 Isabella St., Ottawa. – **D. Prgr.:** 24 h.
4) **Kirkland Lake Broadc. Ltd.,** Government Rd. W., Kirkland Lake. **D. Prgr.:** W. 11.00–05.15. Sun. 13.00–05.15.
5) **Atlantic Broadcasters Ltd.,** St. Ninian Str., Antigonish, N.S. – **D. Prgr.:** 10.45(Sun. 13.00)–04.15. – **V.** by letter.
6) **Consolidated Frybrook Industries Ltd.,** 1262 Don Mills R., Toronto O.: 24 h.

7) **H. F. Dougall Co. Ltd.**, 414 Victoria Ave., Fort William, O. – **D. Prgr.**: 11.25(Sun. 14.00)–05.00.
8) **Broadc. St. CKY Ltd.**, 432 Main Str., Winnipeg, M. – **L.P.**: Dir. Gen.: L. E. Moffat. – **D. Prgr.**: 24 h. – **V.** by letter.
9) **University of Alberta**, 10526 Jasper Avenue, Edmonton, Alta.
10) **Colonial Broadc. System Ltd.**, McBride's Hill, St. John's Nfld. – **D. Prgr.**: W. 10.00–04.30.
11) **Canadian Marconi Co. Ltd.**, 600 Dominion Square Bldg., Montreal, Qu. – **D. Prgr.**: 24 h.
12) **Radio CFQC**, 216 First Ave. N., Saskatoon, Sas. – **L.P.**: Dir. Gen.: A. A. Murphy. – **D. Prgr.**: W. 24 h. exc. Mo. 07.00–13.00.
13) **CJOR Ltd.**, 846 Howe Str., Vancouver, B.C. – **L.P.**: Dir. Gen.: G. Chandler. – **D. Prgr.**: 14.00(Sun. 15.30)–08.00. – **V.** by QSL-card or letter.
14) **Radio St. CHNC**, N. Carlisle, Qu. – **L.P.**: Dir. Gen.: Dr. C. H. Houde. – **D. Prgr.**: **French**: 12.00–05.00. – **CKNB**: **English**: 11.00–(Sun. 13.00)–04.15.
15) **The Niagara Distr. Broadc. Co. Ltd.**, 12 Yates Str., St. Catharines, O. – **L.P.**: Dir. Gen.: Miss M. C. Burgoyne. Dir. Tec.: W. Allen. – **D. Prgr.**: 10.45–05.10. – **V.** by QSL-card or letter. – **FM**: 97.7 mc/s 0.25 kW. **Polish**: Sat. 19.00–19.30. Sun. 14.00–15.00. **German**: Sun. 02.00–03.00. **Ukrainian**: Sun., Sat. 10.00–19.00. **Dutch**: Mo. 02.00–03.00.
16) **Transcanada Communications**, The Leader Post Bldg., Regina, Sas. **L.P.**: Mgr.: D. R. Dawson. Dir. Tec.: E. A. Strong. – **D. Prgr.**: 24 h. – **V.** by QSL-card.
17) **Island R. Broadc. Co. Ltd.**, Broadc. Centre, 85 Kent Str., Charlottetown, PEI. – **D. Prgr.**: 11.15(Sun. 13.00)–04.00.
18) **Transcanada Communications Ltd.**, 300 Carlton Str., Winnipeg. – **D. Prgr.**: W. 11.00–07.05. Sun. 13.15–06.35. – **V.** by letter.
19) **La Tribune Limitee**, 221 Dufferin Street, Sherbrooke, Qu. – **D. Prgr.**: 11.00(Sun. 13.00)–05.00.
20) **R. Edmonton Ltd.**, 10012–109th Str., Edmonton A. – **D. Prgr.**: 14.00(Sun. 17.00)–07.00.
21) **Blick Broadc. Ltd.**, Lindsay Bldg., 228 Notre Dame Ave., Winnipeg, Man. – **D. Prgr.**: 24 h.
22) **Timmins Broadc. Co. Ltd.**, Thomson Bldg., Timmins, O. – **D. Prgr.**: W. 11.00–05.10(Sat. 06.00). Sun. 12.00–05.10.
23) **Radio Gravelbourg**, Gravelbourg, Sas. – **D. Prgr.**: W. 14.00–05.00. Sun. 18.00–05.00.
24) **La Cie. de Publication de "la Presse"**, 980 St. Catherine Str., W., Montreal, Qu. – **D. Prgr.**: 12.00–07.00.
25) **Lions Gate Broadc. Ltd.**, 143 East 11th Str., N., Vancouver, B.C. – **D. Prgr.**: 24 h.
26) **CKSO R. Ltd.**, 336 Ash Str., Sudbury, O. – **D. Prgr.**: 11.00(Sun. 12.00)–06.00.
27) **R. St. CHAB**, 127 Main Str., Moose Jaw, Sa. – **L.P.**: Mgr.: S. Boyling. Dir. Tec.: M. Pickford. – **D. Prgr.**: 13.00–07.00. – **V.** by letter.
28) **CHRC Ltd.**, 39 rue St-Jean, Quebec. – **D. Prgr.**: 11.00(Sun. 13.30)–05.00. – **V.** by QSL-card.
29) **CJAD Ltd.**, 1191 Mountain Str., Montreal, Qu. – **D. Prgr.**: 11.00 (Sun. 12.00)–05.05.
30) **Western Ontario Broadc. Co. Ltd.**, 825 Riverside Drive West, Windsor, O. – **D. Prgr.**: W. 10.30–06.30. Sun. 12.00–06.00.
31) **CJLX, Lakehead Broadc. Co.**, 407 Victoria Ave., Fort William, O. – **L.P.**: Pres. & Gen. Mgr.: R. P. MacGowan. – **D. Prgr.**: W. 11.00–06.00. Sun. 13.00–05.00.
32) **CKOK Ltd.**, 125 Nanaimo Ave. W., Penticton, B.C. – **L.P.**: Pres. & Gen. Mgr.: M. P. Finnerty.
33) **CKVL Ltd.**, 211 Gordon Ave., Verdun, Qu. – **D. Prgr.**: 24 h.
34) **Maple Leaf Broadc. Co. Ltd.**, 848 Main Str. E., Hamilton, O. – **L.P.**: Pres.: K. D. Soble. – **D. Prgr.**: 10.00(Sun. 12.00)–07.00.
35) **The Sudbury Broadc. Co. Ltd.**, 166 Elm Str. W., Sudbury, O. – **L.P.**: Pres. & Gen. Mgr.: F. B. Ricard. – **D. Prgr.**: 24 h.
36) **Lower St. Laurence Radio Inc.**, 6 St. Jean Str., Rimouski, Qu. – **L.P.**: Dir. Gen.: J. Brillant. – **D. Prgr.**: 11.00–06.00.
37) **Island Broadc. Co. Ltd.**, 817 Fort Str., Victoria, B.C. – **L.P.**: Mgr.: Wm. M. Guild. Dir. Prgr.: W. Cowaden. Dir. Tec.: J. Sommers. **D. Prgr.**: D. 13.30–09.00. – **N.** 5 min. every h. – **ANN.**: "This is Radio 9-CJVI, Victoria, your family station". – **V.** by letter.
38) **Central Broadc. Co., Ltd.**, CKBI Bldg., 10th Str., Prince Albert, Sas. – **D. Prgr.**: 13.00(Sun. 13.30)–08.00.
39) **Inland Broadcasters Ltd.**, 387 4th Ave., Kamloops, B.C. – **D. Prgr.**: W. 14.00–07.30, Sun. 15.30–07.00.
40) **CJCH Ltd.**, 741 Robie Str., Halifax, N.S. – **D. Prgr.**: 14.00–04.15.
41) **Fundy Broadc. Co. Ltd.**, 68 Carleton Str., S. John, N.B. – **D. Prgr.**: W. 10.00–05.00, Sun. 12.00–04.15.
42) **Edmonton Broadc. Ltd.**, 10113–104th Str., Edmonton, A. – **D. Prgr.**: 24 h.
43) **The Newfoundland Broadc. Co. Ltd.**, Prince of Wales Str., St. John's, Nfld. – **D. Prgr.**: D. 10.00–04.30(Sat. 05.30).
44) **Yorkton Broadc. Co. Ltd.**, Tower Theatre Bldg., 2nd Ave., Yorkton, Sas. – **D. Prgr.**: W. 13.00–07.00(Sat. 08.00), Sun. 14.00–07.00.
45) **Barrie Broadc. Co., Ltd.**, P.O. Box 519, Barrie, O. – **D. Prgr.**: W. 11.00–04.05, Sun. 13.25–04.05. – **V.** by QSL-card or letter. R.p.
46) **Calgary Broadc. Co. Ltd.**, 1000 Greyhound Bldg., Calgary, Alta. – **D. Prgr.**: 24 h. exc. Tues. 07.00–12.30.
47) **The Maritime Broadc. Co.**, Broadc. House, 10 Tobin Str., Halifax, N.S. – **D. Prgr.**: 10.00(Sun. 12.30)–04.15.
48) **The Frontenac Broadc. Co.**, 170 Queen Str., Kingston, O. – **D. Prgr.**: 11.00(Sun. 12.45)–06.00.
49) **La Compagnie de Radiodiffusion CKCH de Hull Ltee.**, 121 Notre Dame Str., Hull, Qu. – **L.P.**: Dir. Gen.: M. A. Gratton. – **D. Prgr.**: F.: W. 11.00–04.15, Sun. 13.55–05.00. – **V.** by letter.
50) **London Free Press Printing Co. Ltd.**, 442-6 Richmond Str., London, O. – **D. Prgr.**: 24 h. – **V.** by letter.
51) **Kawartha Broadc. Co. Ltd.**, P.O. Box 657, Peterborough, O. – **D. Prgr.**: 11.00(Sun. 13.40)–05.10. – **V.** by QSL-card. R.p.
52) **W. Communications Ltd.**, 2060 Halifax Str., Regina, Sas. – **D. Prgr.**: W. 12.30–08.00, Sun. 14.00–07.00.
53) **R. NW. Ltd.**, Windsor Hotel, 227 Colombia Str., New Westminster, B.C. – **D. Prgr.**: 24 h.
54) **Maisonneuve Broadc. Corpo. Ltd.**, Montreal. – **L.P.**: Pres.: G. Stirling. – **D. Prgr.**: 24 h.
55) **Rogers R. Broadc. Co.**, 37 Bloor Str. W., Toronto 5, O. – **L.P.**: Pres.: W. C. Thornton Cran. Mgr.: W. McKnight. Dir. Tec.: C. Eastwood. – **D. Prgr.**: M.W.: 24 h. – On 6070 kc/s, W. 10.30–06.05. Sun. 13.00–05.05. – **N., Wrp.** every h. on the h. exc. 17.00, 24.00. – **ANN.**: "This is CFRB Toronto". – **V.** by QSL-card.
56) **Northern Broadc. Corp. Ltd.**, 9910-99th Str., Grande Prairie, A. – **D. Prgr.**: 13.00(Sun. 15.00)–07.00.
57) **R. CHUM**, 1330 Yonge Street, Toronto 7, O. – **D. Prgr.**: 24 h.
58) **R. Saint. Boniface Limitee**, 607 Langevin St., St. Boniface, M. – **D. Prgr.**: W. 12.40–06.15, Sun. 15.00–06.00.
59) **The Voice of the Prairies Ltd.**, 712 12th Ave. S.E., Calgary, Alta. – **L.P.**: Dir. Gen.: H. G. Love. Dir. Tec.: R. W. Lamb. – **D. Prgr.**: 24 h. exc. Mo. 07.05–13.00. – **N.** every h. on the h. – **V.** by QSL-card. Prgr.sched. on request.
60) **C.J.L.R. Inc.**, Quebec, P.Q. – **L.P.**: Pres. & Gen. Mgr.: J. La Roche. – **D. Prgr.**: D. 11.00–07.00.
61) **Sarnia Broadc. Co. Ltd.**, 148½ Front Str. N., Sarnia, O. – **L.P.**: Dir. Gen.: C. Irvine. – **D. Prgr.**: 11.00(Sun. 13.00)–05.10. – **V.** by letter.
62) **CHED Ltd.**, 10006–107th Str., Edmonton, Alta. – **D. Prgr.**: 24 h.
63) **Southern Alberta Broadc. Ltd.**, Lethbridge, Alta. – **L.P.**: Gen. Mgr.: J. Budd. – **D. Prgr.**: 24 h.
64) **CKWX Ltd.**, 1275 Burrard Str., Vancouver, B.C. – **D. Prgr.**: 24 h. **V.** by letter.
65) **CKXL Ltd.**, 210–9th Ave. W., Calgary, Alta. – **L.P.**: Pres. & Gen. Mgr.: A. R. MacKenzie. – **D. Prgr.**: W. 13.00–08.00, Sun. 13.00–07.00.
66) **N. Brunswick Broadc. Co.**, 85 Germain Str., S. John, N.B. – **D. Prgr.**: W. 10.00–05.00, Sun. 11.55–04.15.
67) **Wentworth R. Broadc. Co. Ltd.**, 32 John Str. N., Hamilton, O. – **D. Prgr.**: W. 10.00–06.00, Sun. 11.55–05.11.
68) **Western Manitoba Broadcasters Ltd.**, 2940 Victoria Ave., Brandon, Man. – **D. Prgr.**: W. 12.00–07.00, Sun. 14.00–06.00.
69) **C.K.T.R. (1958) Limitée**, 543, rue Gervais, Trois-Rivières, Que. – **L.P.**: Gen. Mgr.: J. Rufiange. – **D. Prgr.**: Mo.–Fri. 10.55–05.30, Sat. 10.55–07.00, Sun. 13.55–05.30.
70) **Lethbridge Broadc. Ltd.**, 1015 Third Ave. S., Lethbridge, A. – **D. Prgr.**: W. 13.00–08.00, Sun. 14.30–07.00.
71) **Moncton Broadc. Ltd.**, Knights of Pythias Bldg., Moncton, N.B. – **D. Prgr.**: W. 10.00–05.00(Sat. 06.00), Sun. 12.00–04.15.
72) **Capital Broadc. System Ltd.**, Hotel Douglas, Victoria, B.C. – **D. Prgr.**: W. 24 h., Sun. 15.00–08.00. – **V.** by letter.
73) **La Cie. de Radiodiffusion de Matane Ltee.**, 4 St. Sacrement Str., Matane, Qu. – **D. Prgr.**: 12.00(Sun. 13.55)–05.00. – **V.** by letter.
74) **Sunwapta Broadc. Co. Ltd.**, 109 CRP Bldg., Edmonton, A. – **L.P.**: Dir. Gen.: G. R. A. Rice. – **D. Prgr.**: 24 h. – **V.** by letter.
75) **Cape Breton Broadcasters Ltd.**, R. Bldg., Sydney, N.S. – **D. Prgr.**: 11.00–04.00. – **V.** by QSL-card.
76) **Fraser Valley Broadcasters Ltd.**, 50 Yale Road East, Chilliwack, B.C. – **L.P.**: J. M. MacLachlin. – **D. Prgr.**: W. 14.00–08.01, Sun. 15.00–07.00.
77) **CJMS Radio-Montreal Ltd.**, 188 Rue Dorchester-est., Montreal, Que. – **L.P.**: Gen. Mgr.: F. Guay. – **D. Prgr.**: French 24 h. – **V.** by letter.
78) **Southern Manitoba Broadc. Co. Ltd.**, Altona, Man.
79) **CKCV Ltee.**, 978 St. John Str., Quebec. – **D. Prgr.**: W. 11.00–05.00, Sun. 13.00–05.00.
80) **London Broadcasters Ltd.**, 343 Richmond Str., London, O. – **D. Prgr.**: W. 24 h. exc. Mo. 05.05–10.45.
81) **CKOY Ltd.**, 635 Richmond Str., Ottawa, O. – **D. Prgr.**: 24 h.
82) **Vancouver Broadc. Associates Ltd.**, Vancouver, B.C. – **L.P.**: Pres. & Mg. Dir.: W. E. Bellman. – **D. Prgr.**: 14.00–09.00.
83) **The Lakeland Broadc. Co. Ltd.**, 16 Centre Str., Oshawa, O. – **L.P.**: Dir. Gen.: A. H. Collins. – **D. Prgr.**: 11.00–06.05, Sun. 13.00–05.05. – **V.** by letter.
84) **St. Lawrence Broadc. Co. Ltd.**, 99 Brook Str., Kingston, O. – **D. Prgr.**: W. 24 h., Sun. 12.30–05.00.
85) **R.CFUN Ltd.**, 1900 West 4th Ave., Vancouver 9, B.C.

NORTH AMERICA
GREENLAND
1:40 Mill.
KM
0
500
1000
2000
Arctic Ocean
Baffin Bay
Davis Strait
Denmark Strait
Hudson Bay
GULF OF MEXICO
CARIBBEAN SEA
NORTH PACIFIC OCEAN
NORTH ATLANTIC OCEAN
GREENLAND
ALASKA
CANADA
UNITED STATES
MEXICO
CUBA
HAITI
JAMAICA
PUERTO RICO
BR. HONDURAS
CENTRAL AMERICA
VENEZUELA
COLUMBIA
Yukon
North West Territories
Labrador
Quebec
Ontario
Manitoba
Saskatchewan
Alberta
British Columbia
Washington
Oregon
Idaho
Montana
Wyoming
Nevada
Utah
Arizona
Colorado
New Mexico
Nebraska
Kansas
Oklahoma
Texas
Minnesota
Iowa
Wisconsin
Michigan
Illinois
Indiana
Ohio
Kentucky
Tennessee
Arkansas
Louisiana
Mississippi
Alabama
Georgia
Florida
Virginia
Maryland
Delaware
Pennsylvania
New York
Massachusetts
Connecticut
Maine
New Foundland
Bermuda
Bahama Islands
DOMINICAN REP.
HAG 588

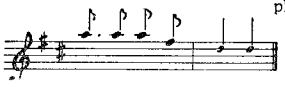
86) **Saskatoon Community Broadc. Ltd.**, Empire Hotel, Saskatoon, Sas. – **D. Prgr.**: W. 13.00–08.00, Sun. 14.00–07.00.
87) **Foster Hewitt Broadc. Ltd.**, 1 Greenville Str., Toronto, O. – **L.P.**: Pres.: F. Hewitt. – **D. Prgr.**: 24 h.
88) **Northwestern Broadcasting Co. Ltd.**, 1721 Main Str., North Battleford, Sa. – **D. Prgr.**: W. 13.00–08.05, Sat. 13.00–09.05, Sun. 14.30–17.05.
89) **R. Beauce Inc.**, 30, rue Saint Antoine, Ville Saint-Georges, Cté. de Beauce, P.Q. – **L.P.**: Mg. Dir.: C. A. Thibaudeau. – **D. Prgr.** W. 12.00–04.00, Sun. 16.00–04.10.
90) **Radio CFOR**, 241 West Str., N. Orillia, O. – **D. Prgr.** W. 11.00–05.15, Sun. 12.45–05.15. – **V.** by letter. R.p.
91) **Standard Broadcasting Co. Ltd.**, Malaspina Hotel, Nanaimo, B.C. – **L.P.**: Man. Dir.: C. J. Rudd. – **D. Prgr.**: 14.00–09.00, Sun. 16.00–08.00. – **V.** by QSL-card. R.p.
92) **CHVC Ltd.**, 1745 River Rd., Niagara Falls, O. – **D. Prgr.**: W 11.00–05.05, Sun. 12.45–03.45.

★ GREENLAND (Danish Territory) ★

L.T.: Angmagssalik area: GMT÷2 h. W. Coast: GMT÷3 h. Thule area: GMT÷4 h. – **Pr.L.**: Greenlandic, Danish. – **Po.**: 31.000. – **Rcvrs.**: 500.

GRØNLANDS RADIOFONI (Go.)

ADDR.: Grønlands Radiofoni, Godthåb. **Cable**: Radiofoni Godthåb. – **L.P.**: Dir. Broadc.: Fr. Nielsen.
HOME SCE.: W.: 10.30–11.20, 15.00–17.00, 20.30–02.05. Sun. 11.30–12.30, 13.00–02.05.
Godthåb 570 kc/s 526 m 25 kW – Godhavn 650 kc/s 461.5 m 5 kW – Frederikshåb 820 kc/s 365.9 m 5 kW – Godthåb FM 97.2 mc/s.
N.: W.: 15.30, 21.40. Sun. 22.00. – **Wrp.**: W.: 10.40, 16.00, 21.15, 02.00. Sun.: 12.25, 16.25, 22.30, 02.00. – **Prgrs. in Norwegian**: Sun. 19.00–20.00 (only 1/6–1/10). **In Faroese**: 20.50–21.30 (only 1/6–1/10).
ANN.: "Kalâtdlit-nunâta rådiua – Grønlands radio...". – **V.** by letter.
INT.-SIG.: played on celeste.



ANGMAGSSALIK RADIO

ADDR.: Angmagssalik Radiostation, Angmagssalik.
STATION: OZL 1500 kc/s 200 m 0.75 kW 7570 kc/s 39.63 m 2 kW
D.Prgr.: W.: 14.00–14.50. **V.** by letter. R.p.

★ MEXICO ★

L.T.: GMT÷6 h. (Mexico generally); GMT÷7 h. (Sonora, Sinaloa, Nayarit and Lower Cal.); GMT÷8 h. (Upper Cal.). – **Pr.L.**: Spanish. **Po.**: 34.000.000. – **Rcvrs.**: 2.800.000. – **E.C.**: 110/125 V., A.C., 50 c/s.

DIRECCION GENERAL DE TELECOMUNICACIONES,

Departamento de Radiodifusion. ADDR.: Col. Narvarte, Mexico D.F.
STATIONS: All st's com. exc. 1), 2), 12), 15), 21), 185), 206).
Short Waves: Call: XE---. *=inactive.

	Call	kc/s	m	kW	m.w.	Name & h. of tr.
1)	SE	2380	126.0	0.35		Sria de Educación Pública
2)	JG	4820	62.24	0.2	630	R. Gobierno del Estado de Jalisco: 14.00–03.00
3)	OI	6010	49.92	0.5	1000	R. Mil: 12.00–07.00
4)	UW	6020	49.88	0.25	960	El Eco de Sotavento: 12.00–06.00
5)	KW	6030	49.75	0.5	1300	R. Continente: 13.00–05.00
6)	TW	6045	49.63	0.5	810	La Voz de Tampico: 12.00–04.00
7)	XG	6065	49.46	5	940	R. Mexicana del Centro: 11.50–06.10
8)	CMT	6090	49.26	1	1450	R. Mante: 12.55–02.00.
9)	QM	6105	49.14	0.25	1240	Emis. Unidas de Yuc.: 13.00–05.00
10)	RCM	6130	48.94	0.1	1110	R. Central de Mexico: 11.00–06.00
11)	WW	6165	48.66	10	900	La Voz de la America Latina: 11.45–06.35
12)	XA	6175	48.58	0.1	1060	R. Gobernacion: Mo. 04.00–05.00
11)	WW	9500	31.58	10	900	La Voz de la America Latina: 11.45–06.35
7)	XF	*9535	31.46	5	730	R.dif. Mexico
13)	FT	9545	31.43	0.25	1250	La Voz de Veracruz: 12.00–05.00
14)	TT	9555	31.40	0.5	1350	La Hora Exacta: 12.00–06.00
15)	YU	9600	31.25	1	860	Universidad Nac. de Mexico: W. 19.00–07.00. Sun. 16.00–04.00
16)	BT	*9625	31.17	10	1220	R. Satélite
7)	QQ	9680	30.99	1	940	R. Mexicana del Centro: 11.50–06.10
17)	NN	*11780	25.47	0.5	690	R. XEN/XENN
18)	BR	11820	25.38	0.15	920	El Heraldo de Sonora: 13.00–05.00
7)	LZZ*	11860	25.29	5	940	R.dif. Mexico
19)	HH	11880	25.25	5	1500	R.dif. Comerciales: 13.00–06.00
7)	XE	*11900	25.21	1	730	R.dif. Mexico
19)	RR	*15110	19.85		1500	R.dif. Comerciales
11)	WW	15160	19.79	10	900	La Voz de la America Latina: 11.45–06.35
20)	SC	15205	19.73	5	1590	El Heraldo de las Telas de Junco: 12.00–07.00 irr.
21)	RU	*15300	19.60	0.25	1310	Universidad de Chih.

Medium Waves: Call: XE---. °=Short Wave. [1]=also FM. [2]=relay station. [3]=time signals.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
11)	WA	°540	150	88)	WV	940[1]	1/0.1	21)	RUU	°1310	1/0.25
22)	KL	550	1/0.25	89)	GM	950	3.5/2.5	152)	TIA	1310	1/0.25
23)	OC	560	10	90)	K	960	5/1	153)	AI	1320	1
24)	QW	550	10	4)	U	°960	0.5	154)	RJ	1320[1]	5/0.5
25)	AR	570	1/0.1	91)	CS	960	1/0.1	155)	BO	1330	1
26)	LQ	570	1	92)	KS	960	1	156)	FC	1330	1
27)	NZ	570	1/0.25	93)	HK	960	1/0.25	157)	RP	1330	1
28)	OA	570	5/0.25	94)	J	970	10/5	158)	WQ	1330	1
29)	TJ	570	1/0.1	95)	O	970	1	159)	JK	1340	1/0.25
30)	VX	570	1/0.25	96)	CJ	970	1/0.25	160)	LW	1340	1/0.25
31)	AV	580	5/1	97)	DF	970	5/1	161)	NV	1340	1/0.25
32)	DZ	580	1/0.45	98)	OW	970	1/0.25	162)	OM	1340	1/0.25
33)	FI	580	5/0.25	99)	VT	970	5/0.4	163)	UX	1340	1/0.25
34)	HP	580	1/0.15	100)	KE	980	1/0.25	14)	QK	°1350[1]	
35)	MU	580[1]	5/0.25	101)	LC	980	5/0.2	164)	TB	1350	5/0.5
36)	UE	580	1/0.1	102)	NR	980	5/0.5	165)	TM	1350	1
37)	E	590	1/0.15	103)	TU	980	5/1	166)	Y	1360	1/0.17
38)	FD	590	5/0.25	104)	XT	980	1	167)	KF	1360	1
39)	HQ	590	1/0.5	105)	T	990[1]	50	168)	SA	1360	1/0.5
40)	PH	590	5	106)	BC	990	1/0.1	169)	A	1370	1
41)	Z	600	2	107)	CL	990	5	170)	HF	1370	5
42)	BB	600	5/1	3)	OY	°1000[1]	10	171)	MR	1370	1/0.5
43)	DN	600[1]		108)	HL	1010[1]	10/5	172)	XL	1370	10/0.1
44)	BX	610	5/0.5	109)	TX	1010	1/0.25	173)	CO	1380	10
45)	CV	610	1/0.25	110)	WS	1010	5/0.25	174)	GW	1380	1
46)	GS	610	1/0.5	71)	QR	1030[1]	10/1	175)	RK	1380	1/0.5
47)	JA	610	1/0.5	111)	D	1050	10/1	176)	M	1390	1/0.5
48)	KZ	610	1/0.25	112)	G	1050	150	177)	P	1390	1/0.5
49)	UF	610	5/1	12)	DP	°1060	50	178)	MX	1390	5
50)	BU	620	1/0.25	113)	GY	1080	1/0.5	179)	OR	1390[1]	
51)	NK	620	10/5	114)	OD	1090	1	180)	TL	1390	5/1
52)	FB	630	5/1d	115)	RB	1090	50	181)	I	1400	1/0.25
53)	FU	630	2/0.75	116)	WL	1090	2.5	182)	JL	1400	1/0.25
2)	JB	°630	0.5	10)	RCN	°1110	50	183)	SB	1400	1/0.2
54)	TK	630	1/0.25	117)	TR	1120	1	184)	SP	1400	1/0.25
55)	TS	630	1/0.5	118)	AD	1150[1]	1/0.12	185)	XB	1400	0.25
56)	ZM	650	5	119)	CE	1150	1	186)	AS	1410	1/0.25
57)	EL	660	2	71)	JP	1150	10	187)	BS	1410	5/1
58)	RPM	660	10/5	120)	JS	1150	1/0.5	188)	CF	1410	1/0.5
59)	FJ	680	1	121)	XZ	1150	1/0.2	189)	WM	1410	1/0.5
60)	KQ	680	5/0.5	122)	GR	1160	1	190)	F	1420	5/0.5
61)	LG	680	10d	123)	RT	1170	5	191)	H	1420	1
17)	N	°690	5	124)	FR	1180	1/0.25	192)	EW	1420	1
62)	AK	690	50	16)	B	°1220	100	193)	WE	1420	5/0.17
63)	DV	700	1	125)	S	1240	1/0.25	194)	XX	1420	2
64)	BL	710	5	126)	BN	1240	1/0.25	195)	CZ	1430	1
65)	ON	710	1	127)	BQ	1240	1/0.5	196)	LL	1430	5/0.25
7)	X	°730[2]	500	9)	MQ	°1240	1/0.25	197)	JX	1430[1]	5/0.5
66)	ZZ	760	5	128)	RZ	1240	1/0.25	198)	WD	1430	2/0.15
67)	BI	790	1/0.25	129)	DK	1250	1	199)	LZ	1440	5/1
68)	FE	790	1/0.5	130)	DL	1250	1	8)	CM	°1450	1/0.25
69)	GZ	790	1/0.25	131)	JX	1250	1/0.1	200)	JD	1450	1/0.25
70)	NT	790	5/0.75	132)	SJ	1250	1/0.5	201)	NA	1450	1/0.25
71)	RC	790[1]	5/1	13)	TF	°1250	0.5	202)	PP	1450	1/0.25
72)	SU	790	1	133)	L	1260	10	203)	VH	1450[1]	1/0.25
73)	AN	800	1	134)	R	1260	1/0.25	204)	HX	1460	1/0.25
74)	LO	800	150	135)	AX	1270[1]	5/0.5	205)	LX	1460	10
6)	FW	°810	50	136)	MH	1270	1/0.25	206)	XQ	1460	0.25
75)	KG	820	1	137)	PV	1270	10.25/	207)	YC	1460	1
76)	LA	830	10/5	138)	ZU	1270	1/0.25	208)	AU	1470[1]	5[3]
77)	BA	840	1	139)	AG	1280	1	209)	HI	1470	1
78)	GB	840	1	7)	AW	°1280[3]	5/0.5	210)	RL	1470	1/0.25
79)	TQ	850	10	140)	BW	1280	1/0.6	211)	SM	1470	10/5
80)	DU	860	1/0.5	141)	GJ	1280	1/0.25	212)	PR	1480	10/0.5
81)	MO	860	5	142)	AP	1290	1/0.1	213)	AL	1490	1/0.25
82)	NW	860	1/0.25	143)	DA	1290	1	214)	DR	1490	1/0.25
15)	UN	°860	5	144)	LE	1300	1/0.15	215)	CT	1490	1/0.25
11)	W	°900	250	5)	SF	°1300	0.5	216)	OB	1490	1/0.25
83)	HO	910	1/0.25	145)	XW	1300	1/0.1	217)	RA	1490	1/0.25
18)	BH	°920	5/1	146)	YJ	1300	1/0.1	19)	RH	°1500	20
84)	BM	920	5/1	147)	AM	1310	1/0.25	218)	GD	1520	1
85)	CQ	920	5/0.1	148)	BP	1310	5/0.25	219)	NC	1540	1/0.25
86)	MJ	920	1/0.25	149)	FH	1310	1	220)	BG	1550	1
87)	OK	930[1]	1/0.25	150)	HV	1310	1	221)	JJ	1550	10
7)	Q	°940	150/50	151)	PO	1310	1/0.25	222)	NU	1550	5

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
223) RX	1560	1/0.25	226) QL	1580	1/0.1	227) AE	1600	1
224) DM	1580	50	20) MC	°1590	10/5	228) CW	1600	1/0.25
225) NQ	1580	1/0.5						

+ 100 low power st's not mentioned. **FM:** 41 stations.
The Mexican government requires all st's to carry "La Hora Nacional del Gobierno Mexicano" every Mo. 04.00–05.00.

Short Waves:
1) Sria de Educación Pública, Dirección de Asuntos Indigenas, Sección Administrativa, Mexico D.F.
2) Palacio de Gobierno, Guadalajara, Jal.
3) Fomento de Radio S.A., Ayuntamiento 101, Mexico D.F. – **L.P.:** Dir. Gen.: Lic. E. G. Salas P. Mgr.: F. Ibarra L. – **D. PRGR.: N.:** Every h. on the h. – **ANN.:** "Radio Mil, en los mil kilociclos de su radio con Música a su Gusto". – **V.** by QSL-card or letter.
4) Av. Independencia 230, Veracruz, Ver. – **V.** by letter.
5) Allende 29, Morelia, Mich. – **L.P.:** Dir. J. Martinez R.
6) Madero 416 Oriente, Tampico, Tams. **Te.:** 2-16-44. – **L.P.:** Dir. Gen.: V. Flores T. Dir. Prgr.: Srta. O. Gomez Lafon. – **V.** by letter and QSL-card.
7) José Maria Marroqui 11, Mexico D.F. – **P.:** L. Dir. Gen.: E.Balli. Dir. Tec.: J. de la Herrán. – **D. PRGR.: N.:** 12.00, 12.25, 14.00, 19.45, 20.40, 01.15, 04.00, 04.45, 06.00, 06.15, **Folklore Music:** 12.00, 13.00, 16.00, 19.00 (9680 kc/s for So. America). – **Relay st's:** operating on 730 kc/s in Saltillo, Coah. (XEQS), Veracruz, Ver. (XEQVV), Torreón, Coah. (XEQT), Guadalajara, Jal. (XEQG), San Luis Potosi (XEQSL), Monterry, N.L. (XEQM). – **ANN.:** "XEQ, su Red de potentas estaciones". – **V.** by QSL-card or letter.
8) Apt. Postal 79, Ci. Mante, Tams. – **V.** by post-card.
9) Ca. 60 No. 735-"D", Merida, Yuc. – **V.** by letter.
10) Vallarta 1–40 Piso, Mexico D.F. – **L.P.:** Dir. Gen.: E. Nassar Jr. Pres.: R. C. Navarra. Dir. Tec.: M. M. Huerta. – **D. PRGR.: N.:** Every h. on the h. – **ANN.:**"Aqui Mexico... XERCN, Estacion Piloto de Radio Cadena Nacional...". – **V.** by QSL-card. R.p.
11) Cadena R.dif. Mexicana S.A., Ayuntamiento 54, Mexico D.F. – **L.P.:** Pres.: E. Azcarraga V. Dir. Gen.: E. Azcarraga M. Dir. Tec.: J. de la Herrán. – **D.PRGR.: N.:** 12.00, 14.00, 20.30, 00.45, 04.45, 05.45. – **Relay st's:** XEWA San Luis Potosi, XEWB Veracruz, XEWM Monterry, XEWK Guadalajara. – **ANN.:** "XEW y XEWW La Voz de la America Latina desde Mexico".
12) Ca. de Bucareli, Mexico D.F. –
13) Av. Independencia 74, Veracruz, Ver. – **V.** by QSL-card.
14) Dolores 10, Primer Piso, Mexico D.F. – **D. PRGR.:** M.w.: 24 h.
15) Oficinas Técnicas, Ci. Universitaria, Mexico 20, D.F. – **Te.:** 281157. – **L.P.:** Dir. Gen. Lic. Pedro Rojas. Dir. Prgr.: Prof. R. López Malo. – **D.PRGR.: N.:** 05.00 (exc. Sun.). –
16) Ca. del Buen Tono 80, Mexico D.F. – **D. PRGR.: N.:** Every h. on the h. – **Concert:** D. 04.00. – **V.** by QSL-card or letter.
17) Salvador del Conde, Lafragua 34, Mexico D.F.
18) P.O. Box 68, Hermosillo, Son. – **L.P.:** Dir. J. R. Agraz N. – **D. PRGR.: N.:** Every h. on the h. – **ANN.:** "XEBH, XEBR El Heraldo de Sonora desde Hermosillo". – **V.** by letter. – **F.PL.:** S.w. 0.5 kW, FM.
19) A.R.S.E. S.A., Quemada 40, Col. Narvarte, Mexico D.F.
20) Calz. México a Xochimilco Km. 17, Parada Rio Blanco, Mexico.
21) Domicilio Conocido, Chihuahua, Chih. –

Medium Waves:
22) **R.dif. XEKL,** Zamora 12, Jalapa, Ver.
23) **R.dif. XEOC,** Av. Chapultepec 471, 4° Piso, Mexico D.F.
24) **R. Mexicana de Mérida,** Ca. 64 No. 526, Mérida, Yuc.
25) **R.dif. XEAR,** Av. Pindo Suárez 223 Sur, Monterrey, N.L.
26) **R.dif. XELQ,** Morelos Nte. 68, Morelia, Mich.
27) **R. Impulsora de Culiacan,** Boulevard 50 Oriente, Culiac.n, Sin.
28) **R. Oaxaca,** Carlos Bustamente 17, Oaxaca, Oax.
29) **R.dif. XETJ,** Av. Lerdo de Tejada 1564, Torreón, Coah.
30) **R.dif. XEVX,** Juárez 30, Comalcalco, Tab.
31) **R.dif. XEAV,** Independencia 42 Norte, Guadalajara, Jal.
32) **R.dif. XEDZ,** Ca. 9 No. 58, Cordoba, Ver.
33) **Pregonero del Edo. de Chihuahua,** Libertad 1302, Chihuahua.
34) **R.dif. XEHP,** Ca. 14 No. 150 Entre, Victoria, Tams.
35) **R.dif. XEMU,** Carranza 3, Piedras Negras, Coah.
36) **La Voz de Chiapas,** Ca. Central 6, Tuxtla Cutiérrez, Chis.
37) **R.dif. XEE,** 20 de Noviembre 122 Pte., Durango, Dgo.
38) **R.dif. XEFD,** Carretera a Matamoros, Rio Bravo, Tams.
39) **R. Hermosillo,** Juárez Esquina con Serdán, Hermosillo, Son.
40) **XEPH; R. 590. XEMX: R. Eco,** Av. Morelos 58, 12° Piso, Mexico D.F. – **D. PRGR.:** XEPH: 13.00–07.00. XEMX: 13.00–06.00.
41) **La Voz de la Peninsula,** Ca. 56 No. 508, Merida, Yuc.
42) **R. Acapulco,** Morelos 3, Acapulco, Gro.
43) **Dif. del Norte,** Av. Juárez 1465 Pte., Torreón, Coah.
44) **R.dif. Coahuila,** Av. Carranza 168, Sabinas, Coah.
45) **R.dif. XECV,** Francisco I. Madero 35, Ci. Valles, S.L.P.
46) **R. Guasave,** Zaragoza 45 Altos, Guasave, Sin.
47) **R.dif. XEJA,** Pasaje Tanos, Ca. Enriquez, Jalapa, Ver.
48) **La Voz del Itsmo de Tehuantepec,** Domicilio Conocido, Tehuantepec, Oax.
49) **R.dif. XEUF,** Portal Carrillo 8, Edif. Silva, Uruapan, Mich.
50) **R.dif. XEBU,** Ojinaga 118, Chihuahua, Chih.
51) **R. 620,** Balderas 32, 4° Piso, Mexico D.F.
52) **Emis. Incorporadas de Monterrey,** 5 de Mayo Ote. 112, Monterrey,
53) **R.dif. XEFU,** Hidalgo 36, Cosamaloapan, Ver.
54) **R. Emis. de Occidente,** Av. Angel Flores 42, Mazatlán, Sin.
55) **R.dif. XETS,** 4a Ca. Oriente 44, Tapachula, Chis.
56) **La Voz del Comercio de Zamora,** 5 de Mayo 30, Zamora, Mich.
57) **R.dif. XEEL,** Teodore Larrey 9, Fresnillo, Zac.
58) **Vocero Mexicano,** Bucareli 109, 4° Piso, Mexico D.F.
59) **R.dif. XEFJ,** Benito Juárez 86, Teziutlán, Pue.
60) **R. Soconusco,** Domicilio Conocido, Tapachula, Chis.
61) **R. Impulsora del Centro,** Pasaje de las Tullerias 1, León, Gto.
62) **R.dif. del Pacifico,** Esq. Lerma y Bravo, Col. Marrón, Tijuana.
63) **R.dif. XEDV,** Zapopan, Jal.
64) **R.dif. XEBL,** Boulevard 50 Ote., Culiacán, Sin.
65) **R.dif. XEON,** Jardin Sto. Domingo, Tuxtla Gutiérrez, Chis.
66) **R.dif. XEZZ,** Tonalá, Jal. (or Av. Juárez 595-2, Guadalajara).
67) **R.dif. XEBI,** Madero 92, Aguascalientos, Ags.
68) **R.dif. XEFEs** Aldama 2611, Nuevo Laredo, Tams.
69) **R.dif. XEGZ,** Apt. Postal 6, Ci. Lerdo, Dgo.
70) **R.dif. XENT,** Apt. Postal 105, Col. del Sol, La Paz, B.C.
71) **R. Popular Mexico** (XERC), **R. Centro** (XEQR), **R. America** XEJP & XHFM), Articulo 123, No. 90, Mexico D.F. – **D. PRGR.:** 12.30–08.30.
72) **R.dif. XESU,** Mina y Zuazua 202, Mexicali, B.C.
73) **R. Ocotlán,** Niños Héroes 245, Ocotlán, Jal.
74) **R.dif. de P. Negras,** Ca. 21 y Letra "K", Ci. Juárez, Chih.
75) **R. Fortin,** Fortin de las Flores, Ver.
76) **R. Metropolitana,** Pasceo de la Reforma 139, Mexico D.F.
77) **R.dif. XEBA,** Pino Suárez 183, Guadalajara, Jal.
78) **La Voz de Tropico,** 3a Hidalgo 37, Coatzacoalos, Ver.
79) **R.dif. XETQ,** Sur 3 No. 2, Orizaba, Ver.
80) **R.dif. XEDU,** 20 de Noviembre 105 Pte., Durango, Dgo.
81) **R.dif. XEMO,** Durango 10, Tijuana, B.C.
82) **R.dif. XENW,** Matamoros 14, Culiacán, Sin.
83) **R.dif. XEHO,** Cuerrero 426, Ci. Obregón, Son.
84) **R.dif. XEBM,** Jardin Hidalgo 15, San Luis Potosi, S.L.P.
85) **R. Culiacán,** Escobedo 226 Pte., Culiacán, Sin.
86) **R.dif. XEMJ,** Boulevard V. Carrenza 6, Piedras Negras, Coah.
87) **R.dif. XEOK,** Xicotencatl 1051 Nte., Monterrey, N.L.
88) **R.dif. XEWV,** Av. Madero 420, Mexicali, B.C.
89) **R.dif. XEGM,** Av. "G" 185, Tijuana, B.C.
90) **R.dif. XEK,** General González 1609, Nuevo Laredo, Tams.
91) **R.dif. XECS,** Hidalgo 500, Manzanillo, Col.
92) **Vocero del Norte,** Aldama y Zaragoza Lado Nte., Saltillo, Coah.
93) **R.dif. XEHK,** Pedro Moreno 315 Desp. 203–205, Guadalajara, Jal.
94) **Mexican Broadc. Co.,** Constitución 402, Ci. Juárez, Chih.
95) **R.dif. El Callo,** Ca. 9a 95 entre, Matamoros, Tams.
96) **R.dif. XECJ,** 5 de Mayo 2 Altos, Apatzingan, Mich.
97) **La Voz del Comercio,** Ca. del Dr. Rio de la Loza 182, Mexico D.F.
98) **R.dif. XEOW,** 5 de Mayo 64, Mazatlán, Sin.
99) **R.dif. XEVT,** Zaragoza Sur 3, Villahermosa, Tab.
100) **R. Navojoa,** Morelos y Toledo, Navojoa, Son.
101) **R.dif. XELC,** Ocampo 3, La Piedad, Mich.
102) **R.dif. XENR,** Juárez 7 Altos, Nueva Rosita, Coah.
103) **Impulsora Moderna del Radio,** Ca. Muelle y Salvador Diaz M, Tampico, Tams.
104) **Radiofónica de Nayarit,** Veracruz y Emiliano Zapata Pte. 164, Tepic, Nay.
105) **El Pregonero del Norte,** 5 de Mayo Ote. 650, Monterrey, N.L.
106) **R. Ciudad Guzmán,** Colon 52, Ci. Guzmán, Jal.
107) **R.dif. XECL,** Av. Madero 621, Mexicali, B.C.
108) **R.dif. XEHL,** Sector Hidalgo Ca. 10 No. 183, Guadalajara, Jal.
109) **R. Casas Grande,** Av. Porfirio Diaz y Minerva 400, Nuevo Casas Grandes, Chih.
110) **R.dif. XEWS,** Rubi 57 Nte., Depto. 1, Culiacán, Sin.
111) **R.dif. XED,** Av. Zacatecas, Entre Ca. 7a y 8a, Mexicali, B.C.
112) **La Voz de Norteamérica,** Hidalgo 426 Ote., Monterrey, N.L.
113) **R.dif. XEGY,** Av. Libertad 113-4, Techuacán, Pue.
114) **R.dif. XEOD,** Rayón e Indep., Edif. Loteria Nacional, Desp. 401, Veracruz, Ver .
115) **Interamericana de Radio,** Rosarito, B.C.
116) **R. Laredo,** Matamoros y Pino Suárez, Nuevo Laredo, Tams.
117) **R.dif. XETR,** Carretera México-Laredo 29 Sur, Ci. Valles, S.L.P.
118) **R.dif. XEAD,** Sector Hidalgo, Ca. 10 No. 183, Guadalajara, Jal.
119) **R. Comercial de Baja California,** Pesajo Regio Depto. 4 y 5, Edificio Padilla, Mexicali, B.C.
120) **R.dif. XEJS,** Maclovio Herrera 24, Hidalgo del Parral, Chih.
121) **R.dif. XEXZ,** Jardin Hidalgo 42-"B", Zacatecas, Zac.
122) **R. Coatepec,** 16 de Septiembre 12, Coatepec, Ver.
123) **R. Televisora Siglo XX,** Av. Juárez 119 Sur, Reynosa, Tams.
124) **R.dif. XEFR,** Isabel la Católica 33-117, Mexico D.F.
125) **R. Televisora de Tampico,** Ca. Altamira 113 Pte., Tampico, Tams.

126) **R. Delicias**, Av. 4a y Ca. 4a Norte, Ci. Delicias, Chih.
127) **R.dif. XEBQ**, Casa "T" No. 142, Empalme, Son.
128) **R. Televisora del Bajio**, Edif. "Seara", León, Gto.
129) **R. Guadalajara**, Independencia 42 Nte., Guadalajara, Jal.
130) **R.dif. XEDL**, Angel Flores 26 Pte., Hermosillo, Son.
131) **R. Emis. Querétana**, Madero 18, Querétana, Qro.
132) **R. Saltillo**, Manuel Acuña Sur 102 "C", Saltillo, Coah.
133) **Capital Broadc. System**, Av. Reforma 400 Desp. 701, Mexico D.F.
134) **R. Linares**, Km. 856.3 Carretera Nacional Mexico-Laredo, Linares, N.L. – **D. PRGR.: English**: 02.00–04.00.
135) **R.dif. XEAX**, Av. Manuel Garcia Vigil 5, Caxaca, Cax.
136) **R. Mérida**, Ca. 58 No. 493, Mérida, Yuc.
137) **R.dif. XEPV**, Mina 1, Papantla de Olarte, Ver.
138) **Promotores de Radio**, Madero 15, Zacapu, Mich.
139) **La Voz de Córdoba**, Av. Uno 135, Córdoba, Ver.
140) **R.Emis. del Norte**, Av. Venustiano Carranza 514, Chihuahua,
141) **R.dif. XEGJ**, Av. Juárez 171 Desp. 504, Guadalajara, Jal.
142) **R.dif. XEAP**, Sinaloa, 206, Ci. Obregón, Son.
143) **R.dif. XEDA**, Dolores 10, Primer Piso, Mexico D.F.
144) **R.dif. XELE**, Muello 304 Sur, Tampico, Tams.
145) **R.dif. XEXW**, Obregón 51 Altos, Nogales, Son.
146) **Television Norteña**, Apt. Postal 16, Nueva Rosita, Coah.
147) **R.dif. XEAM**, Carretera Matamoros.
148) **La Voz de la Laguna**, Cepeda Sur 409, Torreón, Coah.
149) **R.dif. XEFH**, Ca. 5a y Av. Panamericana, Agua Prieta, Son.
150) **R.dif. XEHV**, Aquiles Serdán 126, Veracruz, Ver.
151) **R. Ondas Populares**, Venustiano Carranza 4-A, San Luis Potosi.
152) **R.dif. XETIA**, Sector Hidalgo, Ca. 10 No. 183, Guadalajara, Jal.
153) **R.dif. XEAI**, Frey Servando Teresa de Mier 120, Mexico D.F.
154) **R. Mazatlán**, Av. Juárez 117 Desp. 505, Mazatlán, Sin.
155) **La Voz del Centro**, Berriozabal 8, Irapuato, Gto.
156) **R.dif. XEFC**, Ca. 64 No. 498, Mérida, Yuc.
157) **R.dif. XERP**, Alvare Obregón y 2 de Enero, Ci. Madero, Tams.
158) **R.dif. XEWQ**, Hidalgo 229, Nte. Nonclova, Coah.
159) **La Voz de Delicias**, Av. Agricultura y Ca. 4a Nte. 401, Ci. Delicias, Chih.
160) **R.dif. XELW**, López Cotilla 769, Guadalajara, Jal.
161) **R.dif. XENV**, Andrés y Gonzálo Estrada Crúz, Monterrey, N.L.
162) **R.dif. XEOM**, Zaragoza y Corregidora, Coatzacoalcos, Ver.
163) **R.dif. XEUX**, Hidalgo y Progreso, Tuxpan, Tams.
164) **R. Laguna**, Valdez Carrillo 223 Sur, Torreón, Coah.
165) **R.dif. XETM**, Av. Fco. I. Madero 26 Altos, Naco, Son.
166) **R.dif. XEY**, Tres Cuerras 33, Calaya, Gto.
167) **R.dif. XEKF**, Altamirano 21, Iguala, Gro.
168) **La Voz de Sinaloa**, Av. Alvaro Obregón 39 Sur, Culiacán, Sin.
169) **R.dif. XEA**, Ca. 12 No. 110, Campeche, Cam.
170) **R.dif. Com. Sonorense**, Altos Edif. Bco. Agric. Ganadero, No gales,Son. – **V.** by QSL-card.
171) **R.dif. XEMR**, Galeana Norte 1055, Monterrey, N.L.
172) **R.dif. XEXL**, Lote 14, Colonia Norelos, Pátzcuaro, Mich.
173) **R.dif. XECO**, Mexico D.F. – **D. PRGR.**: English: 01.00–02.30.
174) **R.dif. XEGW**, 13 Hidalgo y Juárez, Ci. Victoria, Tams.
175) **R.dif. XERK**, Veracruz 609, Tepic, Nay.
176) **Mexican Broadc. Co.**, Ojinaga 4106, Chihuahua, Chih.
177) **R.dif. XEP**, 16 de Septiembre 100 Ote., Ci. Juárez, Chih.
178) **R. Eco**, Av. Morelos 58, Mexico D.F. (see 40)).
179) **R.dif. El Gallo**, Pedro José Méndez 154 Ote., Reynosa, Tams.
180) **R.dif. XETL**, Av. Independencia y P. Correo Viejo, Tuxpan, Ver.
181) **R.dif. XEI**, Portal Hidalgo 213, Morelia, Mich.
182) **R.dif. XEJL**, Independencia 27, Guamúchil, Sin.
183) **R.dif. XESB**, Hidalgo y Angela Peralta, Sta. Bárbara, Chih.
184) **R. Impulsora de Occidente**, Ca. de Pedro Loza 31, Guadalajara.
185) **Universidad Veracruzana**, Domicilio Conocido, Jalapa, Ver.
186) **R.dif. XEAS**, Mina 5037, Nuevo Laredo, Tams.
187) **R. Satelite**, Centro Comercial, Ci. Satelite, Estado de Mexico.
188) **La Voz del Valle del Fuerte**, Av. Obregón 204, Los Mochis, Sin.
189) **R. Televisora Tabasqueña**, Domicilio Conocido, Villahermosa.
190) **R.dif. XEF**, 20 de Noviembre 504, Ci. Juárez, Chih.
191) **R. Tárnava**, Padre Mier 248 Ote., Monterrey, N.L.
192) **R.dif. XEEW**, Sexta y Cuerrero, Matamoros, Tams.
193) **R. Iraputo**, Tres Guerras 23, Irapuato, Gto.
194) **R.dif. XEXX**, Revolución y Octava, Tijuana, B.C.
195) **R.dif. Mexicanas**, Av. Matamoros 1038, San Luis Potosi, S.L.P.
196) **R.dif. XELL**, Av. Independencia 231, Desp. 5 y 6, Veracruz.
197) **R.dif. XEOX**, Veracruz 63 Sur, Ci. Obregón, Son.
198) **El Heraldo Fronterizo**, Alvaro Obregón 569, Ci. Miguel Alemán.
199) **R.dif. XELZ**, Articulo 123 No. 90, Mexico D.F.
200) **R.dif. XEJD**, Hotel Poza Rica, Poza Rica, Ver.
201) **R.Emis. Querétana**, Madero 58, Querétaro, Qro.
202) **La Voz de Orizaba**, Sur 27 No. 150, Orizaba, Ver.
203) **R.dif. XEVH**, Brecha 82 con la, Apt. Postal 66, Villa Hermoso,
204) **R. Obregón**, Miños Héroes 219, Ci. Obregón, Son.
205) **R.dif. XELX**, Av. Revolución 194, Zitácuaro, Mich.
206) **Universidad Autónome de San Luis Potosi**, San Luis Potosi.
207) **R.dif. XEYC**, Av. 16 de Septiembro y Progreso, Ci. Juárez, Chih.
208) **R.dif. Acuna**, Av. Carranza 1638, Tijuana, B.S.
209) **R.dif. XEHI**, Km. 1 Carretera a Reynosa, Ci. Miguel Aleman.
210) **R.dif. XERL**, 27 de Septiembre 290, Colima, Col.
211) **El Heraldo del Chocolate Abuelita**, Rébsamen 241, Col. Narvarte, Mexico D.F.
212) **R.fonica de Poza Rica**, Ca. 6 Nte. 2 y Av. Central Ote., Poza Rica.
213) **R.dif. XEAL**, Miños Héroes 670, Manzanillo, Col.
214) **R.dif. XEDR**, Av. Serdán 283 Altos, Guaymas, Son.
215) **R. Zamora**, 5 de Mayo 285 Sur, Zamora, Mich.
216) **R. Torreón**, Acuña Nte. con Narciso Mendoza, Torreón, Coah.
217) **Red Nacional Radioemisora**, Ca. Libertad 1302 Altos, Chihuahua.
218) **R.dif. XEGD**, Maclovia Herrera 79, Hidalgo del Parral, Chih.
219) **R.dif. XENC**, Tres Guerras 33, Celaya, Gto.
220) **R.dif. XEBG**, Av. "C" 255 Altos, Tijuana, B.C.
221) **R. 155**, Carrillo Puerto 6, Jalapa, Ver. – **D.PRGR.**: 12.00–06.00.
222) **R.dif. XENU**, Camargo 518, Nuevo Laredo, Tams.
223) **R.dif. XERX**, Morelos 7, Salamanca, Gto.
224) **R. Pacifico**, Matamoros, Edif. Combate D-1, Hermosillo, Son.
225) **R.dif. XENQ**, Plaza de la Constitución, Tulancingo, Hgo.
226) **R.dif. XEQL**, Zamora, Mich.
227) **R.dif. XEAE**, Guerrero y Ocampo 450, Ci. Acuña, Coah.
228) **R.dif. XECW**, Edif. Mercantil Altos 14, Zaragoza y Juan Escuita, Los Nochis, Sin.

★ SAINT PIERRE ET MIQUELON (French) ★

L.T.: GMT÷3 h. – **Pr.L.**: French. – **Po.**: 5.000. – **Rcvrs.**: 1100. – **E.C.**: 110 V., A.C., 50 c/s.

RADIO ST. PIERRE (Go.)

ADDR.: Service de la Radiodiffusion Télévision Française, St. Pierre et Miquelon. **Cable**: RTF, St. Pierre. **Te.**: 051. – **L.P.**: Dir.: J. Guerlais. **D.PRGR.**: 1375 kc/s 218.2 m 1 kW: 15.00–16.00 (Sat./Sun. 14.30–16.00), 22.30–01.00 (Sat./Sun. 22.30–02.00). – **N.**: 15.25, 23.05. – **Wrp.**: 23.00. – **ANN.**: "Ici St. Pierre et Miquelon-Radiodiffusion Télévision Française". – **INT.-SIG.**: Marche Lorraine. – **V.** by letter.

★ UNITED STATES OF AMERICA ★

L.T.: See World Time Table. – **Pr.L.**: English. – **Po.**: 177.300.000. – **Rcvrs.**: 161.000.000. – **E.C.**: 115 V, A.C., 60 c/s.

VOICE OF AMERICA (Go.)

"THE VOICE OF AMERICA" is operated by the Broadcasting Service of the United States Information Agency. The VOA seeks to promote an increased understanding of the United States among the peoples of the world and to strengthen cooperative international relations.

ADDR.: Voice of America, U.S. Information Agency, 330 Independence Av., S.W. Washington 25, D.C. – **L.P.**: Dir. US Information Agency: George V. Allen. Dir. Broadc. Sce.: Henry Loomis. Prgr. Mgr.: Barry Zorthian. Engineering Mgr.: Edgar Martin. Dir. TV Sce.: Romney Wheeler.

STATIONS:

KCBR (50/100/200 kW), Columbia Broadcasting System, Inc., Delano, California.

KNBH (50/100/200 kW), National Broadcasting Company, Inc., Dixon, California.

WBOU (50 kW), National Broadcasting Company, Inc., Bound Brook, New Jersey.

WDSI (50 kW), Columbia Broadcasting Company, Inc., Brentwood, New York.

WDSI (50 kW), Columbia Broadcasting Company, Inc., Wayne, New Jersey.

WGEO (25/50/100 kW), General Electric Company, Schenectady, New York.

WLWO (110 kW), Crosley Broadcasting Corporation, Bethany, Ohio

VOA USIA FREQUENCY LIST

Station	kc/s	m	Station	kc/s	m	Station	kc/s	m
WDSI	5965	50.28	WBOU	9650	31.09	WDSI	11955	25.09
KCBR	5965	50.28	KCBR	9700	30.93	WLWO	11970	25.06
KNBH	5990	50.08	WLWO	9710	30.90	WBOU	15130	19.83
KNBH	6040	49.67	WBOU	11710	25.61	KCBR	15130	19.83
WDSI	6045	49.63	KNBH	11730	25.58	KCBR	15150	19.80
KCBR	6120	49.02	WBOU	11770	25.49	WBOU	15155	19.80
KNBH	6145	48.82	WLWO	11825	25.37	WBOU	15185	19.76
WDSI	6175	48.58	KCBR	11830	25.36	WDSI	15200	19.74
KCBR	6185	48.50	WGEO	11830	25.36	KCBR	15210	19.72
KNBH	9515	31.53	KNBH	11870	25.27	WDSI	15235	19.69
WBOU	9530	31.48	WBOU	11870	25.27	WLWO	15245	19.68
WLWO	9545	31.43	WLWO	11875	25.26	WLWO	15250	19.67
KCBR	9600	31.25	KCBR	11875	25.26	WDSI	15270	19.65
KNBH	9625	31.17	KCBR	11900	25.21	WBOU	15270	19.65
WDSI	9635	31.14	WDSI	11905	25.20	WLWO	15290	19.62

Station	kc/s	m	Station	kc/s	m	Station	kc/s	m
KCBR	15310	19.60	WLWD	17800	16.85	WBOU	21570	13.91
WGEO	15330	19.57	KCBR	17815	16.84	WGEO	21590	13.90
WLWO	15350	19.54	WLWO	17830	16.83	WLWO	21610	13.88
WLWO	15365	19.52	WDSI	17830	16.83	WDSI	21650	13.86
WLWO	17710	16.94	KCBR	21460	13.98	WDSI	21690	13.83
KCBR	17735	16.92	WDSI	21465	13.98	WLWO	21735	13.80
WGEO	17760	16.89	WLWO	21485	13.96	KCBR	21740	13.80
KCBR	17770	16.88	WDSI	21500	13.95	KCBR	25630	11.70
WBOU	17780	16.87	WDSI	21505	13.95	WBOU	25950	11.56
WLWO	17795	16.86	WBOU	21540	13.93	WBOU	26040	11.52

RELAY STATIONS:
For frequencies of the relay stations, refer to the individual countries: Germany, Greece, Dodecanese Islands, Great Britain, Tangier, Ceylon, Hawaii, Ruykyu Islands, and Philippines.

ANNOUNCEMENT:
Each program ends with these words spoken in English: "This program has come to you from the United States of America". The station identification is then announced in English.

INTERVAL SIGNAL:
Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". This musical symbol is played at the beginning of a transmission, during station breaks, and at the conclusion of a transmission. At the beginning of a transmission the sign on announcement is followed by 3 minutes of musical symbol made up of alternate 5 seconds music and 5 seconds silence.

VERIFICATION by QSL-card. No return postage required.

FUTURE PLANS:
When the Voice of America's East Coast facility in the U.S. is completed in 1962, there will be six 500 kW short-wave transmitters as well as six 250 kW's, not only to permit reception in Europe and parts of Africa, but also to improve the quality of our signals rebroadcast by our relay bases in Europe and the Mediterranean.

To Europe

Language	Time	U.S.m.b.	Relay Bases
ALBANIAN	*05.30–06.00	—	31, 41
	20.00–20.30	13, 19	19, 31, 41, 49, 379
ARMENIAN	14.30–15.00	11, 13, 16	13, 16, 19, 25, 31
	*15.30–16.00	—	16, 19
BULGARIAN	04.15–04.30	25, 31, 49	25, 31, 41, 49
	16.30–17.00	11, 13, 16	13, 16, 19, 41, 49
	*18.00–18.30	—	41, 49, 379
	19.30–20.00	13, 16, 19	19, 25, 31, 41, 49, 379
CZECH-SLOVAK	04.30–05.00	25, 31, 49	25, 31, 41, 49
	*05.30–06.00	—	25, 31, 41, 49
	20.30–21.00	16, 19, 25	19, 25, 31, 41, 49
	22.30–23.00	16, 19, 25	19, 25, 31, 41, 49, 251
ESTONIAN	*02.00–02.30	—	25, 31, 41, 49
	18.30–19.00	11, 13, 16	16, 19, 25, 31, 41
	*20.00–20.30	—	251
FRENCH	20.00–20.30	16, 19, 25	—
GEORGIAN	14.00–14.30	11, 13, 16	13, 16, 19
	*15.00–15.30	—	16, 19, 25, 31
GERMAN	17.00–17.15	11, 13, 16	—
	19.15–19.30	13, 16, 25	1734
GREEK	17.15–17.30	13, 19	16, 19, 379
HUNGARIAN	06.00–06.30	25, 31, 49	25, 31, 41, 49
	18.30–19.00	11, 13, 16, 19	16, 25, 31, 41, 49, 379
	21.30–22.00	16, 19, 25	19, 25, 31, 41, 49
	*22.30–23.00	—	379
	*23.00–23.30	—	19, 25, 31, 41
LATVIAN	*02.00–02.30	—	25, 31, 41, 49
	17.30–18.00	11, 13, 16	16, 19, 25, 31, 49
	*20.30–21.00	—	251
LITHUANIAN	*03.00–03.30	—	25, 31, 41, 49
	16.30–17.00	11, 13, 16	16, 19, 25, 31, 41
	*18.30–19.00	—	251
POLISH	05.00–05.30	25, 31, 49	25, 31, 41, 49
	16.00–16.30	11, 13, 16	13, 16, 19, 25, 31
	19.30–20.00	11, 13, 16	16, 19, 25, 31, 49, 251, 1734
	*21.30–22.00	—	25, 31, 49, 251, 1734
RUMANIAN	04.00–04.15	25, 31, 49	25, 31, 41, 49
	17.30–18.00	11, 13, 16, 19	13, 19, 25, 31, 41, 49, 379
	20.30–21.00	16, 19, 25	19, 31, 41, 49, 379
RUSSIAN	02.30–03.00	25, 31, 49	25, 31, 41, 49
	*03.30–04.00	—	25, 31, 31, 49
	*04.30–05.00	—	25, 31, 41, 49
	*06.30–07.00	—	19, 25, 31, 41, 49
	15.00–15.30	11, 13, 16	13, 16, 19, 25, 31
	*16.00–16.30	—	16, 19, 31, 41, 49
	*17.00–17.30	—	13, 16, 19, 25, 31, 41, 49
	18.00–18.30	11, 13, 16	13, 16, 19, 25, 31, 41, 49
	*19.00–19.30	—	16, 19, 31, 41, 49
	*20.00–20.30	—	19, 25, 31, 41, 49
	21.00–21.30	16, 19, 25	19, 25, 31, 41, 49
	*22.00–22.30	—	19, 25, 31, 41, 49
SERBO-CROAT	04.30–04.45	25, 31, 49	251
	*05.00–05.15	—	25, 31
	*05.30–05.45	—	25, 31, 49, 251
	19.00–19.30	13, 16, 19	19, 25, 31, 49, 251, 379
	21.00–21.15	16, 19, 25	19, 25, 31, 49, 251
	*22.15–22.30	—	379
SLOVENE	17.00–17.15	13, 16, 19	—
	*21.15–21.30	16, 19, 25	19, 25, 31, 41, 49, 251
UKRAINIAN	*03.30–04.00	—	25, 31, 41, 49
	15.30–16.00	13, 16, 19	13, 16, 19, 25, 31

To Near- and Middle East

Language	Time	U.S.m.b.	Relay Bases
ARABIC	03.30–04.00	25, 31, 49	—
	04.00–05.15	—	25, 31, 41, 49, 238
	*05.15–05.45	—	25, 31, 41, 49, 238
	05.45–06.00	—	25, 31, 41, 49, 238
	*06.30–07.00	—	19
	17.00–17.30	—	19, 25, 31, 41, 238
	17.30–18.00	13, 19	19, 25, 31, 41, 238
	18.00–18.30	—	19, 25, 31, 41, 238
	18.30–18.45	13, 19	19, 25, 31, 41, 238
	18.45–19.00	—	19, 25, 31, 41, 238
	19.30–19.45	13, 19	19, 25, 31, 41, 238
	19.45–20.30	—	19, 25, 31, 41, 238
	20.30–21.00	13, 19	19, 25, 31, 41, 238
TURKISH	16.30–17.00	13, 19	13, 16, 19, 31, 41, 238
	*17.30–18.00	—	16, 19

To South Asia

Language	Time	U.S.m.b.	Relay Bases
BENGALI (To Pakistan)	14.30–15.00	13, 16, 19	11, 13, 19, 25
BENGALI (To India)	13.30–14.00	13, 16, 19	11, 13, 19, 25, 41
HINDI	15.30–16.00	13, 16, 19	11, 13, 19, 25, 41
MALAYALAM	14.30–14.45[1]	13, 16, 19	41
	14.45–15.00[1]	—	41
TAMIL	14.30–14.45[2]	13, 16, 19	41
	14.45–15.00[2]	—	41
URDU	15.00–15.30	13, 16, 19	11, 13
	*16.00–16.30	—	19, 25

[1]) Tues., Thurs., Sat. – [2]) Sun., Mo., Wed., Fri.

To Far East

Language	Time	U.S.m.b.	Relay Bases
AMOY	10.00–10.30	31, 49	19, 31
	*11.00–11.30	—	13, 19, 25, 31
	*14.00–14.30	—	13, 19, 263
	*14.30–15.00	—	19
BURMESE	13.15–14.00	31, 49	13, 19, 263
	*15.15–16.00	—	13, 19
CANTONESE	10.30–11.00	31, 49	—
	12.00–12.30	—	13, 19, 25, 31, 49, 263
	*13.00–13.30	—	25, 31
	*14.00–14.30	—	19, 25, 31
	*15.00–15.30	—	13, 19, 31, 263
	22.30–23.00	11, 13, 16	25, 31, 41
	*23.30–00.00	—	19, 31
INDONESIAN	11.00–12.00	31, 49	19, 49
	*13.00–14.00	—	19, 49
JAPANESE	21.30–22.00	13, 16, 19	31, 41, 49
	*00.30–01.00	11, 13, 16	—
	*11.30–12.00	—	41
KOREAN	12.00–12.30	25, 31	—
	*13.00–13.30	—	25, 31

USA

Language	Time	U.S.m.b.	Relay Bases
	*14.00–14.30	—	31
	22.30–23.00	11, 13, 16	31, 41
MANDARIN	11.30–12.00	31, 49	13, 19, 25, 31, 254, 263, 326
	*12.30–13.00	—	19, 25, 31, 49, 254
	*13.30–14.00	—	25, 31, 254
	14.30–15.00	31, 49	13, 19, 25, 31, 254, 263
	*15.30–16.00	—	19, 25, 31, 254
	22.00–23.30	13,16	31, 41, 49
	*23.00–23.30	—	19, 31
	*00.30–01.00	—	16, 19, 25
RUSSIAN	09.30–11.00	31, 49	19, 25, 31, 41, 254
	*12.00–12.30	—	25, 31, 254
	15.00–15.30	25, 31, 49	19, 25, 31, 254
	*20.30–21.00	—	31, 41, 49
UKRAINIAN	*10.30–11.00	—	19, 25, 31
	15.30–16.00	25, 31, 49	—
	*20.00–20.30	—	31, 41, 49
VIETNAMESE	12.30–13.00	31, 49	13, 19, 263
	*15.30–16.00	—	263
	23.30–00.00	11, 13, 19	19, 25

To Latin America

SPANISH	U.S.kc/s	Relay Bases
01.00–02.00	6175, 9650, 15245, 15270, 17710, 17780	—
*02.30–03.00	15130, 17735	—

*) Repeat of last previous origination.

Prgr's. in English (World Wide Schedule)

TO EUROPE

Time	U.S. kc/s	Relay Bases (kc/s)
03.00–03.30	6045, 9635, 11825	7200, 9615, 9755 T
*04.00–04.30	—	1196, 6100 M, 7250 T, 9530 M, 9615 T
05.00–05.30	5965, 9710, 11970	1196, 6100 M, 7250, 9615 T
06.00–06.30	5965, 9710, 11970	1196, 6100 M, 7250, 15205 T
07.00–07.30	6045, 9635, 11825	11785, 15205, 15385 T
*08.00–08.30	—	15385 T, 17830 T
13.00–13.30	21540, 25950	15330, 17855 T
14.00–14.30	21650, 25950	15270, 17855 T
*15.00–15.30	–	15270, 17855 T
16.00–16.30	15235, 21500	6185 M, 9585 TH, 15270 T
17.00–18.30	15235, 21505	173, 1196, 3980, 6185 M, 9520 TH, 9615 T
18.30–19.15	15235, 21505	9615 T, 173, 3980, 6185 M, 9520 TH,
19.15–20.00 (M) 20.00–20.15 20.15–21.00 (M) 21.00–22.00	15235, 21505	3980, 6185 M, 9520 TH, 9615 T
22.00–22.15 22.15–23.00 (M) 23.00–23.15 23.15–00.00 (M)	—	173 M, 9615 T

TO WEST AFRICA

05.00–05.30	9770, 11875	—
06.00–06.30	9770, 11875	15330 M
07.00–07.30	9770, 11875	15330 M
17.00–19.15 19.15–20.00 (M) 20.00–20.15 20.15–21.00 (M) 21.00–22.00	17710, 21610	15440 M
22.00–22.30	17710, 21610	15440 M

TO MIDDLE EAST& EAST AFRICA

03.00–03.30		7200 T, 9530 – 11740 M, 11890 T
*04.00–04.30		9530, 11740 M, 11785 T
05.00–05.30		9530, 11740 M
06.00–06.30		1259, 6040, 7265 C, 7200 T, 11740 M, 11890 T
*07.00–07.30		11890, 15320 T
*08.00–08.30		15335, 21705 T
13.00–13.30		15295, 21455, 25880 T
14.00–14.30		9530, 11805 C, 15295, 21455, 25880 T
*15.00–15.30		15295 T, 15330 TH
16.00–16.30		1259, 7260, 9530 C, 15295, 25880 T
17.00–18.00		9635, 15415 M, 15210 Col., 21455 T
18.00–19.15 19.15–20.00 (M) 20.00–20.15 20.15–21.00 (M)		9635, 15415 M
21.00–21.30 *21.30–22.00		1259, 7125, 9530 C, 9635 M
22.00–22.30		1259, 7125, 9530 C, 9635 M

TO SOUTH ASIA

01.00–01.30 02.00–02.30		7275, 11835 Col., 17780 P
03.00–03.30		11835 Col.
12.00–13.00		7110, 11875, 15385 Col., 21455, 25880 T
13.00–13.30		7110, 11875, 15385 Col., 15185 P, 21455, 25880 T
14.00–14.30		7110, 11875, 15385 Col., 15185 P, 21455, 25880 T
15.00–15.30		7110, 11875, 15385 Col., 15185 P (to 15.15)
15.15–16.00 (M)		15185 P
16.00–16.30		7110 Col., 15185 P, 25880 T
16.30–17.15 (M)		15185 P
16.30–17.00 (R)		7110, 11875 Col.
17.00–18.00		7110, 11875, 15385 Col., 21455 T

TO FAR EAST

	U.S. (kc/s)	Relay Bases (kc/s)
09.00–09.30	5990, 6185, 9600	9650, 11775 H, 7155, 9710, 9670, 11960, 15380 OK, 11785, 15125, 15210, 15250 15330 P
*10.00–10.30	—	9650, 11775 H, 11785, 15185, 15330 P, 7155, 9710, 11960, 15380 OK
10.30–11.00	—	15185, 15330 P, 7155, 9665, 9710 OK
*11.00–11.30	—	9650, 11775 H, 920, 11785, 15335 P, 1180, 7155, 9710, 11960 OK
12.00–13.00	6145, 9515, 9625	9650, 11775 H, 920, 11785, 15335 P, 7155, 9710 OK
13.00–13.15	6145, 9515, 9625	9650, 11775 H, 920, 1140, 11785, 15185, 15335 P, 7155, 9710 OK
13.15–14.00	6145, 9515, 9625	9650, 11775 H, 920, 11785, 15335 P, 7155, 9710 OK
14.00–14.15	6145, 6185, 9515, 9600	9650, 11775 H, 920, 6125, 11785, 15185, 15335 P, 1180, 7155, 9710, 11960 OK
14.15–14.30	6145, 9515, 9625	15185 P, 1180, 11960 OK
14.15–15.00 (M) *15.00–15.15 15.15–16.00 (M)	—	9650, 11775 H, 920, 6125, 11785, 15335 P, 7155, 9710 OK
16.00–16.30	5990, 6185, 9515, 9600, 11870	9650, 11775 H, 920, 1140, 6125, 11785, 11895, 15185, 15250, 15335 P, 1180, 7155, 9615, 9665, 9710, 11960 OK
21.00–21.30	15150, 17770, 21740	9770, 11765 P
22.00–22.30 (R)	17815, 21460	9770 P
23.00–23.30	17770, 21740, 25630	6145, 7160 OK, 11790, 11895, 15200, 15275 P, 7160, 11960 OK
00.00–00.30 (R)	17770, 21740, 25630	15215 OK, 11790, 11895, 15200, 15250, 15275, 17750 P
01.00–01.30	17770, 21740, 25630	11960, 15215 OK, 11790, 15200, 15250, 15275, 17750, 17780 P

TO LATIN AMERICA

	U.S. (kc/s)
23.00–24.00	15200, 15330
00.00–01.15	15200, 15290, 15330, 17830
01.15–02.00 (M)	15200, 15290, 15330, 17830
02.00–02.15	15200, 15290, 15330, 17830
02.15–03.00 (M)	15200, 15290, 15330, 17830
03.00–03.30	15130, 15200, 15290, 15330, 17735, 17830

Transmitter Abbreviations: C - Courier (Rhodes). Col - Colombo. H - Honolulu M – Munich OK – Okinawa. P – Philippines (Manila & North Luzon). T - Tangier. TH - Thessaloniki.
Program Abbreviations: M - Music USA. R - Repeat of last previous origination.
News programs transmitted during the first 15 minutes of the hour.

ARMED FORCES RADIO and TELEVISION SERVICE

ADDR.: Office of Armed Forces Information and Education, Washington 25, D.C. – **FI.:** By State (Dept. of Defense).
This office exercises over-all policy control of the Armed Forces Radio and Television Service. The mission of AFRTS is to keep U.S. Service men and women stationed outside the States the best informed service personnel in the world on current events. **All broadcasts are in English.** News, sports and other timely matter is beamed overseas directly by ten powerful tr. on the U.S. Atlantic and Pacific coasts. These s.w. broadcasts serve the overseas radio stations, which rel. them locally. Prgrs. other than news and locally produced prgrs. are derived directly from the U.S. Commercial radio and tv. networks. N. is compiled from the wires of A.P. and U.P.I. Regular shortwave prgr's are presented daily from both Los Angeles and New York City, over the tr's of the V.O.A. The operational headquarters of AFRTS, at Los Angeles, ships undated radio and tv. prgrs. on transcription and film, respectively, to overseas stations, and controls the Pacific Shortwave Service. Officer in Charge: Lt. Colonel Lother B. Sibert, USA.

EUROPEAN SERVICE (from New York).
ADDR.: Armed Forces Press, Radio and Television Service, 250 West 57th Str., New York 19, N.Y. –
D.PRGR.: 50 kW – Period : All year.

Call	kc/s	m	Target area	h. of tr.
WBOU1	15185	19.76	Europe	19.00–22.45
WBOU6	15270	19.60	Caribbean	17.00–22.45
MUN	15280	19.63	Mid. East	15.15–22.45
WBOU5	17780	16.87	Europe	17.30–22.45
WBOU5	17785	16.87	Europe	14.30–17.30
WDSI1	21650	13.91	Europe	14.30–22.45

N.: 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00, 22.00.
"Dateline New York" (conference period): D. 14.30–15.00.
ANN.: "This is the United States Armed Forces Radio Service in New York. The Voice of Information and Education". – V. by QSL-card. – **PUB.:** Prgr.sched. published seasonally; available on request.

PACIFIC SERVICE (from Los Angeles).
ADDR.: AFRTS Shortwave, 1016 No. McCadden Place, Los Angeles 38, Calif. **Te.:** Hollywood 23302.
D. PRGR.: 23.00–15.00.

Call	kc/s	m	kW	Beam	h. of tr.
KCBR-2	9700	30.93	50	Japan/Korea	07.30–15.00
KCBR-5	9740	30.80	100	Alaska/Aleutians	06.00–11.45
KCBR-3	11715	25.61	50	Philippines/Marianas	07.30–15.00
KCBR-4	15210	19.72	100	Philippines/Marianas	06.00–08.00
KCBR-5	15315	19.59	100	Caribbean	12.00–15.00
KCBR-3	17815	16.84	50	Alaska/Aleutians	23.00–07.00
KCBR-2	21460	13.98	50	Japan/Korea	23.00–07.00
KCBR-1	21740	13.80	200	Philippines/Marianas	02.00–07.00

N.: Hourly from 23.00–14.00 and at 14.45, except during broadcast of sport contests. – **Conference Period:** D. 23.05, 07.05. – **Armed Forces Digest:** Sun.–Fri.: 22.30, Mo.–Sat.: 07.45, 14.30. – **Newsmakers:** Tues.–Sat. 02.00. – **Folklore Music:** Tues.–Sat.: 04.30, 13.30; Sun.: 08.05, 11.30, 12.30.
ANN.: At the end of prgr.: "This is AFRTS Shortwave at Los Angeles". Hourly: "This is the United States Armed Forces Radio and Television Service, the voice of information and education, broadcasting on VOA tr. KCBR at Delano, Calif.". – V. by QSL-card. – Freqs. are announced thirty minutes past each hour.
A.F.R.T.S.'s OUTLETS: BROADCASTING
Total outlets: Radio 86, TV with studios 28, FM 2, Carrier Current 20, Audio System 45, TV rel. 5, s.w. 2.
Abbreviations: A=Army – AFKN=American Forces Korea Network – FEN=Far East Network – N=Navy – RCAF=Royal Canadian Air Force – AF=Air Force – A=Army – Fo=Fort. – **The greater majority of the stations operate from 06.00–24.00 L.T.**

	sce.	kc/s	kW
NORTH ATLANTIC			
Argentia	N	1480	0.25
Canada			
Goose Bay	RCAF		
N. Foundland			
St. Johns	AF	1480	0.05
Stephenville	AF	1490	0.05
Azores			
Terceira	AF	1500	0.25
Greenland			
Narssarssuak	AF	900	1
Sondrestrom	AF	1420	0.25
Thule AFB	AF	1425	0.25
Iceland			
Keflavik	AF	1484	0.25
ALASKA			
Adak	N	890	0.25
Elmendorf	AF	860	0.05
Eilson	AF	790	0.05
Fo. Greely	A	980	0.05
Kodiak	N	960	0.25
Nome	AF	590	1
Whittier	A	980	0.05
Murphy Dome	AF	1570	0.01
CARIBBEAN AREA			
Fo. Clayton[1])	A	790	5
Fo. Gulick[1])	A	1420	1
Trinidad	N	570	0.25
Ramey[2])	AF	780	0.05
Guantanamo[3])	N		0.25
NORTH AFRICAN AREA			
Libya			
Tripoli	AF	1585	1
Morocco			
P. Lyautey	N	1484	0.25
Sidi Slimane	AF	1594	0.25
Nouasseur	AF	1594	0.25
Ben Guerir	AF	1594	0.25
MIDDLE EAST AREA			
Eritrea			
Asmara	A	1500	0.25
Saudi Arabia			
Dhahran	AF	1195	0.25
Crete			
Iraklion	AF	1579	0.25
Iran			
Teheran	A	630	0.25
Turkey			
Adana	AF		0.025
Diyarbakir	AF	1570	0.05
EUROPE			
Germany (see Germany)			
Greece			
Athens	AF	1590	0.25
Italy			
Verona	A	540	0.005
Vicenza	A	540	0.005
Livorno	A	540	0.005
FAR EAST AREA			
Japan (FEN)			
Tokyo	AF	810	10
Tokyo s.w.	AF	6160 / 11750 / 15257	10
Tokyo s.w.	AF	3800	0.25
Misawa	AF	1580	0.25
Wakkanai	AF	1590	0.1
Iwakuni	AF	1580	1
Itazuke	AF	1550	2.5
Chitose	AF	1570	0.25
Iwo Jima	AF	1500	0.1
Ryukyu Isl.			
Okinawa	AF	650	1
So. Korea (AFKN)			
Taegu	A	1360	1
Pusan	A	1250	1
Seoul	A	560	5
Kuma-Ri	A	1400	1
Kunsan	A	1440	0.25
Osan	A	1060	0.25
Tongduchon	A	900	1
Munsan-Ni	A	1060	1
Taiwan (see also Taiwan)			
Taiwan	N	1560	1
Taiwan s.w.	N	7215	1
Philippines			
Clark AFB	AF	1220	1
Subic Bay	N	1520	0.25
Sangley Point	N	1300	0.25
PACIFIC AREA			
Eniwetok, M.I.	AF	1385	0.25
Johnston Isl.	AF	1250	0.1
Kwajalein	N	1220	1
Midway Isl.	N	900	0.25

[1]) Panama. [2]) Puerto Rico [3]) Cuba.

PRIVATE STATIONS

Number of Radio Stations in the U.S.A. as of June 1, 1960.	Total Authorized	Licensed	Operating
A.M. Comm.	3513	3351	3406
F.M. Comm.	784	596	636
F.M. Educational	166	152	156

Receivers in use: approx. over 150 millions.

EDUCATIONAL STATIONS (non. comm.)

ADDR.: Office of Education, Washington 25, D.C. – **L.P.:** Chief Radio-Television: Dr. Franklin Dunham.
Educational and Television Center: Coliseum Bldg., Columbus Circle, New York City, N.Y.
NATIONAL ASSOCIATION OF EDUCATIONAL BROADCASTERS (NAEB.)
FI.: By membership fees. Also support from foundations. The national independent professional association, which since 1925 has represented the interests and needs of educational television and radio broadcasters, represents appr. 75% of the educational stations and production centers of the United States (appr. 90% exc. those identified as religious st.).
ADDR.: Executive Office: 119 Gregory Hall, Urbana, Illinois. **Te.:** Empire 7–6611, Ex. 33. – **L.P.:** Pres.: William G. Hanley. Adm. Vice Pres.: H. E. Hill.
Stations: 159 educational institutions and organizations owning and operating a total of 160 educational radio and 43 TV st's.
Activities and Functions: The NAEB is the Association of American institutions operating educational, cultural and public sce's., radio and TV st's and production centers. Its services include workshops, seminars, regional and national annual conferences, personnel-upgrading sce's., and employment agency, legal, research and other operational consultant sce's., and numerous publications in radio and TV, incl. a monthly Newsletter and a bi-monthly journal (available by subscription abroad at $5.00 per year). It has an exchange-advisory membership relationship with most national educational organizations. The NAEB also operates a radio network which duplicates via tape and distributes to membersf's. ten hours of programming per week. At present there are some 115 st's. in this network. Exchanges of prgr's. with other nations are welcomed. It also actively cooperates with various international organizations (European Broadcasting Union, UNESCO etc.), and the national systems of various other countries (R.T.F., BBC, RAI, CBC and others), exchanging prgr's., publications and personnel with the broadcasting organizations of over 20 nations in Europe, Asia, Australia and Africa as well as those in No., C. and So. America. According to federal communications commission regulations, non-comm. educational FM st's. have no restrictions on transmission time:

COMMERCIAL STATIONS

M.W. Stations operating with a power of 10 kW and above. The time each station is authorized to operate is indicated in the list. Each station is required to operate at least two-thirds of the hours it is authorized to operate between 6:00 AM and 6:00 PM, and two-thirds of hours it is authorized to operate between 6:00 PM and midnight. If authorized to operate unlimited time, it may operate for the entire 24 h.

Abbreviations: D: Daytime operation. LS=Local Sunset. N: Night. L=Limited Time. +=CP granted for increase of power. CP=Construction permit. a) 24 h. Al=Alabama. Ala=Alaska. Ark=Arkansas. Cal=California. Colo=Colorado. D=Dakota. Fla=Florida. Ga=Georgia. Id=Idaho. Ill=Illinois. Ind=Indiana. Ia=Iowa. Kan=Kansas. Ky=Kentucky. La=Louisiana. Md=Maryland. Mo=Missouri. Mich=Michigan. Mass=Massachusetts. N.C.=No. Carolina. Neb=Nebraska. N.Y.=New York. O=Ohio. Okla=Oklahoma. Or=Oregon. Pa=Pennsylvania. Tex=Texas. Tenn=Tennessee. Va=Virginia. Wisc=Wisconsin. U=Utah.

Call	kW	
640		
KFI	50	L. Angeles, Cal. a)
650		
WSM	50	Nashville, Tenn., NBC. a)
660		
WVOK	50	Birmingh., Al. D.
KFAR	10	Fairbanks, Ala., ABC, MBS, NBC.
WNBC	50	New York, N.Y., NBC.
670		
WMAQ	50	Chicago, NBC. a)
680		
KENS	50	LS/10N S. Antonio, Tex., CBS.
KNBC	50	S. Francisco, Cal. a)
WNAC	50	Boston, Mass. a)
WPTF	50	Raleigh, N.C. a)
WRCA	50	New York, N.Y. a)
690		
WAPE	25	Jackson, Fla. D
WCYB	10	Bristol, Va., ABC.
700		
WLW	50	Cincinnati, O., NBC, ABC. a)
710		
KIRO	50	Seattle, Wash., CBS. a)
KMPC	50	LS/10N L. Angeles,
WGBS	10	N/50LS Miami, Fla.
WOR	50	New York, N.Y. a)
KGNC	10	Amarillo, Tex., NBC.
720		
WGN	50	Chicago, Ill. a)
740		
KCBS	50	S. Francisc., Cal. a)
KRMG	50	LS/25N Tulsa, Okla.
KTRH	50	Houston, Tex. a)
WBAM	50	Montgomery, Al. D
750		
WSB	50	Atlanta, Ga., NBCa)
760		
WJR	50	Detroit, Mich., CBS. a)
770		
WABC	50	New York, N.Y., ABC. a)
KOB	50	LS/25N Albuquerque, N. Mexico, NBC.
780		
WBBM	50	Chicago, CBS. a)
800		
CKLW	50	Windsor-Detroit, Mich.
810		
KGO	50	S. Fransc., Cal, ABC. a)
WGY	50	Schect., N.Y., NBC. a)
KCMO	50	LS/10N Kansas City, Mo., CBS.
820		
WBAP	50	Ft. Worth, Tex., NBC. a)
WFAA	50	Dallas, Tex., NBC. a)
830		
DCCD	50	Minneapolis, Minn.
WCCO	50	Minneapolis, Minn., CBS.
840		
WHAS	50	Louisville, Ky. a)
850		
KOA	50	Denver, Colo., NBC. a)
WHDH	50	Boston, Mass. a)
WKIX	10	LS/5N Raleigh,
860		
KOAM	10	LS/5N Pittsburg, Kan. – Joplin, Mo., NBC.
WOAY	10	Oak Hill, W. Va.
870		
WWL	50	N. Orleans, La., CBS. a)
880		
WCBS	50	New York, N.Y., CBS. a)
890		
WLS	50	Chicago, ABC. a)
940		
KFRE	50	Fresno, Cal., CBS. a)
WINZ	50	LS/10N Miami, Fla.
WMAZ	50	LS/10N Macon, Ga., CBS. a)
970		
XEJ	10	LS/5N Juarez (El Paso), Tex.
990		
WIBG	50	LS/10N Philadelphia, Pa. a)
KSYD	10	LS/1N Wichita Falls, Tex., MBS, ABC.
1000		
KOMO	50	Seattle, Wash., ABC. a)
WCFL	50	Chicago, Ill. a)
1010		
KRVN	25	Lexington, Neb. D
WINQ	50	Tampa, Fla. CP
WEAS	50	Decatur, Ill. D
WINS	50	New York, N.Y. a)
1020		
KDKA	50	Pittsburgh, Pa. a)
1030		
KOB	50	Albuquerque, a)
KATR	50	Corp. Chr., Tex. D
WBZ	50	Boston, Mass. a)
1040		
WHO	50	Des Moines, Ia., NBC. a)
1050		
WMGM	50	New York, N.Y. a)
1060		
WNOE	50	LS/5N New Orleans, La.
WRCV	50	Philadelphia, Pa., NBC. a)
1070		
KNX	50	L. Angeles, Cal., CBS. a)
WAPI	50	LS/5N Birmingham, Al., NBC.
WDIA	50	LS/10N Indianapo.
WKOW	10	LS/5N Madison, Wisc., CBS.
1080		
KRLD	50	Dallas, CBS. a)
WTIC	50	Hartford, Conn., NBC. a)
1090		
KING	50	Seattle, Wash., NBC. a)
KTHS	50	Little Rock, Ark. a)
WBAL	50	Baltimore, Md., NBC. a)
1100		
KYW	50	Cleveland, O. a)
1110		
KFAB	50	Omaha, Neb. a)
WBT	50	Charlotte, No. C., CBS. a)
1120		
KMOX	50	St. Louis, Mo., CBS. a)
1130		
WDGY	50	LS/25N Minneapo.
WNEW	50	New York, N.Y. a)
WCAR	50	LS/10N Detroit,
KWKH	50	Shreveport, La. a)
1140		
KGEM	50	Boise, Id. a)
WRVA	50	Richmond, Va. a)
KSOO	10	LS/5N Sioux Falls, So. D. ABC.
1160		
KSL	50	Salt Lake City, U., CBS. a)
WJJD	50	Chicago, Ill.
1170		
KVOO	50	Tulsa, Okla., NBC.
WWVA	50	Wheeling, W. Va. a)
WCOV	10	LS/1N Montgomery, Al., CBS.
1180		
WHAM		Rochester, N.Y. a)
1190		
KEX	50	Portland, Ore. a)
WOWO	50	Ft. Wayne, Ind. a)
KYW	50	Cleveland, O. a)
KLIF	50	LS/N Dallas, Tex.
1200		
WOAI	50	S. Antonio, Tex., NBC. a)
1210		
WCAU	50	Philadelphia, Pa., CBS. a)
WKNX	10	Saginaw-Bay City,
1220		
WGAR	50	Cleveland, O. a)
1240		
WOWL	25	Florence, Al., ABC.
1260		
WFBM	50	Indianapolis, Ind., ABC.
1340		
WNHC	10	New Haven-Hartford, Conn., ABC.
1400		
WMSL	25	Decatur, Al., MBS.
1490		
WVEC	250	Hampton-Norfolk, Va., NBC.
1500		
KSTP	50	St. Paul, Minn., NBC. a)
WTOP	50	Wash., CBS. a)
WJBK	10	Detroit, Mich.
1510		
KGA	50	Spokane, Wash. a)
WLAC	50	Nashville, Tenn. a)
1520		
KOMA	50	Okla. City, Okla. a)
WKBW	50	Buffalo, N.Y. a)
1530		
KFBK	50	Sacramento, Cal. a)
KGBT	50	LS/10N Harlingen, Tex., CBS.
WCKY	50	Cincinnati, O. a)
1540		
WPTR	50	Albany, N.Y. a)
KXEL	50	Waterloo, Ia. a)

GLOBAL BROADCASTING COMPANY (International Shortwave-Station – Comm.)

ADDR.: 1720 So. Boulder, Tulsa, Oklahoma. – **L.P.:** Pres.: Albert L. Crain.

STATION: 15180 kc/s 19.76 m 50 kW.
DAILY SCE.: 22.00–04.00 to Latin America. **English:** 22.00–23.00, 02.00–04.00. – **Spanish:** 23.00–02.00.
F.PL.: Prgr's to Eastern & Central Europe.

INTERNATIONAL BROADCAST STATION KGEI

KGEI (The Voice of Friendship) is owned and operated by the Far East Broadcasting Co., Inc., Whittier, California.
ADDR.: Box 887, Belmont, California.
L.P.: Gen. Mgr.: R. E. Bronson. St. Mgr.: C. W. Lawrence. Dir. Prgr.: R. W. Jones. Dir. Spanish Prgr.: J. Escalante. Dir. News & Music: J. G. French. Dir. Tec.: D. C. Smith.
STATION: 15225 kc/s 19.70 m 50 kW d. Latin America.
D. PRGR.: 23.00 (Sun. 22.00) – 24.00 **English,** 00.00–02.45 **Spanish,** 02.45–03.15 (exc. Mo.) **English.**

ANN.: English (Sign On): "This is the Voice of Friendship, International Broadcast Station KGEI, San Francisco, California, the United States of America, owned and operated by the Far East Broadcasting Company on a frequency of 17.795 megacycles in the 16 meter band. KGEI is dedicated to the purpose of promoting good will, better understanding and friendship among the peoples of the free world... This is the Voice of Friendship!". – **INT.-SIG.:** Sign off with anthem, "The Lord Bless You and Keep You" followed by National Anthem. – **V.:** QSL-cards sent on request. – **PUB.:** Prgr.schedule sent to all requesting.

WORLD WIDE BROADCASTING SYSTEM (Comm.)

FI.: By adv. – **ADDR.:** One East 57th Street, New York 22, N.Y. Cable: "Shortwave". Te.: Pl. 3–0484. – **L.P.:** Press. and Dir. Gen.:

Ralf Brent. Dir. English & Scandinavian Prgr.: J. Fillinger. Dir. Spanish Prgr.: G. Caram. Dir. Portuguese Prgr.: G. Coelho. Dir. Tec.: L. H. MacDonald.

FOREIGN SERVICE

STATIONS: WRUL – 1 (50 kW) – 2 (50 kW) – 3 (50 kW) – 4 (20 kW). **Operating frequencies at different times of the year:**

kc/s	m	kc/s	m	kc/s	m	kc/s	m
9530	31.48	15230	19.70	17710	16.94	17885	16.78
11780	25.47	15285	19.63	17750	16.90	21460	13.98
11830	25.36	15380	19.51	17845	16.81		

EUROPEAN SCE. in English, Swedish, Norwegian: Mo.-Fri. 20.45–22.00; Sat. 20.00–22.00, Sun. 19.45–21.30 on 1538/17750/21460 kc/s. **N. in English:** Mo.–Fri. 21.30. – **Swedish:** Mo., Wed., Thurs. 20.45. – **Norwegian:** Tues., Fri. 20.45. – Sun. **Rel. Features.** – **DX Prgr.:** 3rd Sat. of the month 20.15. – **Listeners Corner:** 1st, 2nd, 4th Sat. of the month 20.15.

LATIN AMERICAN SCE. in English, Portuguese, Spanish:
English: 23.00 (Sun. 22.15)–24.00 on 11830/15380/17750 kc/s. **N.:** Mo.–Fri. 23.00, 23.45. – **DX Prgr.:** 3rd Sat. of the month at 23.45. – **Listeners Corner:** 1st, 2nd, 4th Sun. of the month at 23.45.
Portuguese: D. 00.00–00.30 on 11830/17750/17845 kc/s.
Spanish: D. 00.30–02.30 on 11830/15380/17750/17845 kc/s.
ANN.: E.: "This is the World Wide Broadcasting System, International Radio Station WRUL – **The Voice of Freedom** – speaking to you directly from New York City USA". – **INT.-SIG.:** New World Symphony (by Dvorak). – **V.** by QSL-card and letter. – **PUB.:** Write for prgr.sched.

AMERICAN BROADCASTING CO. (A Division of American Broadc., Paramount Theatres, Inc.). – **ADDR.:** 7 West 66th Str., New York 23, N.Y. **Te.:** Susquehanna 7–5000. – **L.P.:** Pres. American Broadc. – Paramount Theatres and A.B.C.: L. H. Goldenson. Exec. Vice Pres.: J. G. Riddell. Financial Vice-Pres. AB-PT and A.B.C.: S. B. Siegel. Vice Pres. in charge of Press Information for ABC. M. J. Foster. Vice-Pres. in charge of the ABC Network: R. R. Pauley.
Owned and operated stations: WABC+FM, New York, **KABC+FM**, Los Angeles, **KGO+FM**, San Francisco, **WXYZ+FM**, Detroit, **KQV**, Pittsburgh, **WLS**, Chicago.

COLUMBIA BROADCASTING SYSTEM INC.: ADDR.: 485 Madison Ave., New York 22, N.Y. **Te.:** Plaza 1-2345. – **L.P.:** Chairman of the Board of Directors: William S. Paley. Pres.: F. Stanton. Pres. CBS Radio Division: A. H. Hayes. Dir. Information Sce.: M. Horton.
Owned and operated stations: WCBS, New York, **WBBM**, Chicago, **KCBS**, S. Francisco, **KMOX**, St. Louis, **KNX**, L. Angeles, **WEEI**, Boston, **WCAU**, Philadelphia. – **V.** by QSL-card or letter.

NATIONAL BROADCASTING COMPANY INC.: ADDR.: 30 Rockefeller Plaza, New York 20, N.Y.–**L.P.:** Chairman of the Board: Robert W. Sarnoff. Pres.: Robert E. Kintner. Senior Exec. Vice Pres.: D. C. Adams. Exec. Vice Pres. NBC Owned Stations & Scott Sales Division: P. A. Sugg. Exec. Vice Pres. TV Network: W. D. Scott. Vice Pres. Radio Network: W. K. McDaniel. Vice Pres. Enterprises Division: A. R. Stern. Vice Pres. Corporate Affairs: L. Bernstein. Dir. Internat. Enterprises: Clifford W. Slaybaugh.
Owned and operated Radio Stations: WNBC+WNBC-FM, 30 Rockefeller Plaza, New York 20, N.Y. **Te.:** Circle 7-8300. Vice Pres. and Gen. Mgr.: W. N. Davidson. – **WRC+WRC-FM**, 4001 Nebraska Ave., N.W., Washington 16, D.C. **Te.:** Emerson 2-4000. Vice Pres. and Gen. Mgr.: J. Goodfellow. – **WAMP+WFMP**, 1459 Crane Ave., Pittsburgh 20, Pa. **Te.:** Locust 3-5238. Gen. Mgr.: S. J. Rooney. – **WMAQ+WMAQ-FM**, Merchandise Mart, Chicago 54, Ill. **Te.:** Superior 7-8300. Vice Pres. and Gen. Mgr.: L. E. Yoder. – **WRCV**, 1619 Walnut Str., Philadelphia 3, Pa. **Te.:** Locust 4-3700. Vice Pres. and Gen. Mgr.: R. W. Welpott. – **KNBC+KNBC-FM**, 420 Taylor, S. Francisco 2, Cal. **Te.:** Greystone 4-8700. Gen. Mgr.: G. W. Fuerst.

★ PUERTO RICO ★

Commonwealth of – (U.S. Territory)

L.T.: GMT÷4 h. – **Pr.L.:** Spanish, English. – **Po.:** 2.314.000. – **Rcvrs.:** 1.400.000.

BROADCASTERS ASSOCIATION OF PUERTO RICO, P. O. Box 10144, Santurce.
STATIONS: All st's comm. exc. 10) & 24) – St's allowed to operate as many hours as they wish.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
1) WPAB	550	5/1	6) WIAC	740	10	11) WPRA	990	10
2) WKAQ	580	5	7) WKVM	810	25	12) WMIA	1070	0.5
3) WAEL	600	1	8) WABA	850	0.5	13) WVJP	1110	0.25
4) WAPA	680	10	9) WPRP	910	5	14) WITA	1140	0.5
5) WKJB	710	1/0.5	10) WIPR	940	10	15) WORA	1150	1
16) WLEO	1170	0.25	21) WTIL	1300	1	26) WEUC	1420	1
17) WNIK	1230	0.25	22) WRIO	1320	5/1	27) WNEL	1450	0.25
18) WALO	1240	0.25	23) WGRF	1340	0.25	28) WMDD	1490	0.25
19) WISO	1260	1	24) WIVV	1370	1	29) WWWW	1520	0.25
20) WCMN	1280	1	25) WHOA	1400	0.25	30) WENA	1560	0.25

FM:32) WFID 95.7 mc/s. 33) WPRM 98.5 mc/s. 31) WXRF 1590 1
D.PRGR.: 10.00–approx. 04.00 exc. where indicated.
1) **Portorican American Broadc. Co.,** P.O. Box 786, Ponce. – **L.P.:** Mgr.: A. Gimenez-Aquayo. – **D.PRGR.:** 10.00–02.00.
2) **El Mundo Broadc. Corp.,** 654 Ponce de Leon Av., San Juan. – **L.P.:** Mgr.: V. Lamas Jr. – **FM:** 104.7 mc/s.
3) **R. WAEL,** Box 297, Mayaguez. – 4) **R. WAPA,** Box 4563, S. Juan.
5) **R. WKJB,** Box 1293, Mayaguez. – **L.P.:** Mgr.: J. A. Bechara Jr.
6) **R. WIBS,** 1261 Ponce de Leon Av., S. Juan. – **L.P.:** Mgr.: T. Muniz.
7) **American Colonial Broadc. Corp.,** Box 4189, S. Juan. – **L.P.:** Mgr.: R. P. Perry. 8) **R. WABA,** Box 188, Aguadilla. – **L.P.:** Mgr.: F. Bonnet.
9) **Voice of Puerto Rico,** Box 430, Ponce. – **L.P.:** Mgr.: A. R. de Arellano. – **ANN.:** "Transmite WPRP, Ponce, Puerto Rico, 910 kc/s en el cuadrante de su radio".
10) **Department of Education of P.R.,** Hostos Av. & Tous Soto Str., S. Juan. – **L.P.:** Dir. Gen.: R. Delgado M. – **D.PRGR.:** 11.00 (Sun. 12.00)–02.15. – **N.:** 14.00, 16.00, 19.00, 22.00. – **ANN.:** "WIPR, La emisora del Pueblo de Puerto Rico, en San Juan, Puerto Rico". – **V.** by QSL-card. – **FM:** 89.7 mc/s.
11) **R. WPRA,** Box 869, Mayaguez. – **L.P.:** Mgr.: Camara. – **D.PRGR.** 24 h.
12) **Abacoa Radio Corp.,** Barrio San Daniel, Insular rd. 2, Arecibo. – **L.P.:** Mgr.: C. M. Pirallo. – **D.PRGR.:** 09.30–04.00.
13) **Borinquen Broadc. Corp.,** Box 207, Caguas. – **L.P.:** Mgr.: H. Pereira. – **D.PRGR.:** 12.00–03.00.
14) **Electronic Enterprises Inc.,** Box 2792, S. Juan. – **L.P.:** Mgr.: M. A. Suarez. – **D.PRGR.:** 04.00–16.00. Mo. through Sun.
15) **Radio Americas Corp.,** Box 43, Mayaguez. – **L.P.:** Mgr.: R. M. Dupont. – **D.PRGR.:** 10.00–02.00. – **FM:** 97.5 mc/s.
16) **Ponce Broadc. Corp.,** Box 1526, Ponce. – **L.P.:** Mgr.: C. Cordero. Dir. Tec.: J. H. Conesa. – **D.PRGR.:** 10.00–03.00. – **V.** by QSL-card. –
17) **Arecibo Radio Corp.,** Box 1075, Arecibo. – **L.P.:** Mgr.: L. E. Freyre. – **D.PRGR.:** 10.00–03.00. – **V.** by letter. R.p.
18) **R. WALO,** Desengano Str., Humacao. – **L.P.:** Mgr.: A. L. Ochoa.
19) **South P.R. Broadc. Corp.,** Box 2023, Ponce. – **L.P.:** as 17).

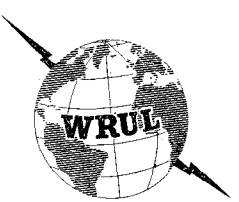
Listen to **WRUL** NEW YORK

"The Voice of Freedom"

Covers: Europe
Middle East
Africa
Latin America

For full details see U.S.A.

WORLD WIDE BROADCASTING SYSTEM, INC.
New York



20) **Caribbean Broadc. Corp.**, Box 7, Arecibo. – **L.P.**: Mgr.: N. Barreto. – 21) **Mayaguez Radio Corp.**, Box 1346, Mayaguez. 22) **Master Broadc. Corp.**, Barrio Monacillos, Insular rd. 1, Rio Piedras. – **L.P.**: Mgr.: I. Quinones V. – **D.PRGR.**: 10.00–04.00. 23) **Jaicoa Broadc. Corp.**, Box 863, Aguadilla. – **L.P.**: Mgr.: M. A del Valle. 24) **Calvary Baptist Mission of P.R.**, Box 338, Viequez Island. – **L.P.**: Dir. Gen.: P. D. Luttrell. Dir. Tec. D. Shereda. – **D.PRGR.**: 10.00–14.00. – **V.** by letter. 25) **Continental Broadc. Corp.**, 566 Poncé de Leon Av., S. Juan. – **L.P.**: Mgr.: W. R. Anthony. – **D.PRGR.**: 10.30–05.00. 26) **Catholic University of Puerto Rico**, Service Assn., Campus, Poncé. – **L.P.**: Rev.: W. E. Alvarez. – 27) **Inter-American Radio Corp.**, Box 487, Caguas. – **L.P.**: Mgr.: E. Biasoechea. – **D.PRGR.**: 10.00–02.00. 28) **R. WMDD**, Box 387, Fajardo. – **D.PRGR.**: 10.00–02.00. 29) **R. WWWW**, Box 935, Rio Piedras. – **L.P.**: Mgr.: F. A. Gandia. 30) **Bayamon Broadc.**, Bayamon-Catano Rd., Bayamon. – **L.P.**: Mgr.: G. D. Atiles. – 31) **Gauyama Broadc. Co.**, Hostos 42N, Guayama. – Mgr.: G. Cordero Jr. – **D.PRGR.**: 10.30–03.00. – **V.** by QSL-card. 32) **Fidelity Broadc. Corp.**, J-one-Violeta Str., Rio Piedras. – **L.P.**: Mgr.: S. De Acosta. – 33) **P. R. Music Services**, Box 490, S. Juan.

★ VIRGIN ISLANDS (American) ★

L.T.: GMT÷4 h. – **Pr.L.**: English. – **Po.**: 25.000. – **Rcvrs.**: 6.000.

ST. CROIX:

RADIO AMERICAN WEST INDIES, INC. (Comm.)
ADDR.: P.O. Box 831, Christiansted, St. Croix.
L.P.: R. E. Higdon. – **WIVI** 1040 kc/s 288.5 m 0.25 kW: W. 09.45–04.00. Sun. 13.00–17.00. – **V.** by QSL-card. – **F.PL.**: 1 kW.

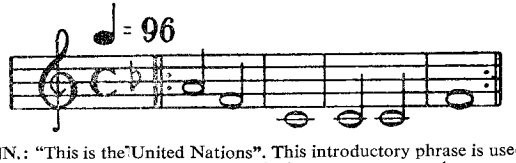
VIRGIN ISLANDS BROADC. SYSTEM (Comm.)
ADDR.: Box 456, Frederiksted, St. Croix. – FM. 100.1 mc/s 0.78 kW.

ST. THOMAS:

ISLAND BROADCASTING CO. Inc. (Comm.)
ADDR.: P.O. Box 538, Charlotte Amalie, St. Thomas. **L.P.**: Gen. Mgr.: L. Stein. – **D. Prgr.**: 10.00–04.00 on 1340 kc/s 223.8 m 0.25 kW.

★ UNITED NATIONS ★

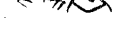
UNITED NATIONS RADIO
ADDR.: United Nations, New York. **Cable**: UNATIONS, New York. **Te.**: Pl 4–1234. – **L.P.**: Under-Secr., Office of Public Inf.: Dr. Hernane Tavares de Sa. R. & Visual Services Division: Dir.: P. Aylen. Ass't. Dir. (R.): G. Obhrai. Ass't. Dir. (Visual): J. G. Lindstrom. Chief of Prod. (R.): H. R. van Stuwe. Chief of Prod. (Visual): D. F. Ritchie. Chief, TV-R. Operations: M. Hayward.
INT.-SIG.: Music chime



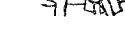
ANN.: "This is the United Nations". This introductory phrase is used in all the official UN prgrs. in all of the languages concerned.
Message to listeners: The R. & Visual Services Division is anxious to establish contact with as many listeners as possible and will gladly acknowledge all communications. Upon request, new correspondents are sent a prgr.sched. and some general information about the United Nations and the Specialized Agencies. Correspondence and requests for copies of the sched. of UN broadcasts should be addressed to the Director of the nearest UN Information Centre. These are located in Accra, Addis Ababa, Athens, Bangkok, Belgrade, Bogota, Buenos Aires, Cairo, Copenhagen, Djakarta, Geneva, Kabul, Karachi, Lima, London, Manila, Mexico City, Monrovia, Moscow, New Delhi, Paris, Prague, Rangoon, Rio de Janeiro, Rome, San Salvador, Santiago, Sidney, Teheran, Tokyo, Tunis, Washington D.C. Requests for copies of the sched. of UN broadc. which can be heard in the United States should be addressed to: Radio and Visual Services Division, United Nations, New York.

BROADCASTS FROM THE UNITED NATIONS
No. Europe: Mo.-Fri.: 17.00–17.30 WBOU 21540 kc/s. **N. in Finnish, Icelandic.**
We., So. Europe: Mo.-Fri.: 17.30–18.00 WDSI 17830/21690 kc/s **N. in Arabic, English, French, Flemish, German, Dutch.**
18.00–18.30: WLWO 15250/21485 kc/s, WDSI 17830/21690 kc/s, Tangier 17855 kc/s. **N. in Italian, Greek, Turkish.**
18.30–18.45: WDSI 17830/21690 kc/s (reserved for correspondents).
East- and C. Africa (Mo.-Fri.)
18.45–19.00: WDSI 17830 kc/s, WLWO 17795/21735 kc/s. **N. in French, English.**
Ea. Latin America: Mo.-Fri.: 23.00–23.30 WDSI 15270 kc/s, WBOU 17780 kc/s, WLWO 15245/17710 kc/s. – **N. and Prgr. in Spanish.**
West Indies/Brazil: Mo.-Fri.: 23.30–23.45 WDSI 15270/21570 kc/s, WLWO 15245/17710 kc/s, WBOU 17780 kc/s. – **N. in Portuguese, French, English.**
We. Latin America: Mo.-Fri.: 01.45–02.00 KCBR 15130/17735 kc/s. – **N. in Spanish.**
M. East, So. Europe: Tues.-Sat.: 07.00–07.45 Tangier 15190/21705 kc/s. – **N. in English, Amharic, Persian, Hebrew, Serbo-Croat, Italian.** – This prgr. is transmitted to Tangier from 03.45–04.30 on WLWO 9710/11970 kc/s.
Service to Malaya: Tues.–Sat.: 01.30–01.45 KCBR 21740 kc/s. – **N.** and Prgr. **in English.**
So.We.Pacific: Tues.–Sat.: 08.00–08.15 KNBH 9515/11875 kc/s. Prgr. **in English** for Australia/N.Z.
So. Ea. Asia: Tues.-Sat.: 10.00–10.30 Manila 15210 kc/s. **N. in English, Indonesian, Thai.** – This prgr. is transmitted to Manila on KNBH 9515/11730 kc/s.
Far East: Tues.–Sat.: 10.30–11.00 Manila 11785/15210 kc/s. **N., Prgr. in Chinese.** – This prgr. is transmitted to Manila on KNBH 9515/11730 kc/s.
Service to Ceylon: Tues.-Sat.: 11.45–12.00 Tangier 21455/25880 kc/s, Munich 21585 kc/s. – **N. in English.** – This prgr. is transmitted to Tangier on WLWO 17830 kc/s, WBOU 21540/21570/25950 kc/s.
Prgr.'s from the European Office of the United Nations, Geneva 13.00–13.15 (Mo.) HED5 9545 kc/s. **N. in Hungarian.** – 14.30–14.45 (Sat. only) 17770/11905 kc/s. **N. in Persian.** – 16.30–16.55 (Mo.-Fri.) HED5 9545 kc/s. **N. in Russian.** – 19.20–19.35 (Mo.-Fri.) 6010/9575/11810 kc/s. **N. in Arabic.**

BROADCASTS OF MEETINGS OF THE GENERAL ASSEMBLY AND THE SECURITY COUNCIL WHEN IN SESSION
1. Europe, No. Africa, Middle East (English/French):
AM Meeting: 15.30–17.30 21690 kc(WDSI), 15.30–18.00 17710 kc (WLWO) – **PM Meeting**: 20.00–23.15 11955(WDSI), 23.00–04.00 5965 kc(WBOU), 23.15–concl. 9525 kc(WBOU), 04.00–concl. 5955 kc (WBOU).
2. Africa (English/French):
AM Meeting: 15.30–18.00 21610 kc(WLWO) – **PM Meeting**: 20.00–24.00 21610 kc, 20.00–00.15 17800 kc, 00.15–concl. 11970 kc. 00.30–concl. 9770 kc(all WLWO).
3. East, Central and We. So. America (Spanish):
AM Meeting: 15.30–18.00 21465 kc(WDSI) – **PM Meeting**: 20.00–22.45 21690 kc(WDSI), 22.45–concl. 11770 kc(WBOU).
Prgr.'s from the United Nations are broadcast by st.'s in more than 100 countries and territories. The times of these broadcasts may be ascertained from local newspapers or from the stations concerned. – R.st's in the United States and Canada receive the prgrs. direct by line from the United Nations Headquarters, or by recording. – The R. and Visual Services Division prepares and distributes recorded prgr.s in Amharic, Arabic, Burmese, Duri, Dutch, English, Finnish, French, German, Greek, Hebrew, Icelandic, Hindi, Indonesian, Italian, Persian, Polish, Portuguese, Pushtu, Serbo-Croat, Sinhalese, Spanish, Tagalog, Thai, Turkish and Urdu – Letters from listeners all over the world are welcome.
New listeners are sent some general information about the United Nations upon request. – Correspondence and request for particulars of the United Nations broadcasts from Headquarters should be addressed to: Radio and Visual Services Division, United Nations, New York.



CENTRAL AMERICA



★ BAHAMAS (British) ★

L.T.: GMT÷5 h. – **Pr.L.**: English. – **Po.**: 160.000. – **Rcvrs.**: 20.000. – **E.C.**: 120 V., A.C., 60 c/s.

BAHAMAS BROADCASTING AND TELEVISION COMMISSION (Go.)
ADDR.: P. O. Box 1347, Nassau. – **L.P.**: Mgr.: H. R. Bethel. Dir.Tec.: R. E. Knowles.
HOME SERVICE: ZNS 1540 kc/s 195 m 10 kW: 11.00–05.00. – **N.**: 13.15, 18.15, 00.15. – ANN.: "This is St. ZNS, Nassau". – **V.** by letter.

★ BERMUDA (British) ★

L.T.: GMT÷4 h. – **Pr.L.**: English. – **Po.**: 44.000. – **Rcvrs.**: 17.100. – **E.C.**: 110/120 V., A.C., 60 c/s.

BERMUDA BROADCASTING CO. LTD. (Comm.)
F.I.: By adv. – **ADDR.**: Box 314, Hamilton. **Cable**: ZBM Bermuda. **Te.**: 1-3116. – **L.P.**: Man. Dir.: W. Staskow. Mgr.: G. Robinson. Dir. Tec.: J. H. Spershott. Prgr. Dir.: P. Dunch.

HOME SERVICE: ZBM-1, ZBM-2: 0.25 kW:
1235 kc/s 242.9 m: W.: 24 h.
1340 kc/s 232.3 m: W.: 11.00–01.00, Sun. 13.00–03.00.
N., Wrp.: English: D. 10.55, 11.45, 13.00, 16.45, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 01.00, 02.05, 03.30, 04.00, 04.30, 05.00. – **Portuguese:** D. 10.15–10.30 on 1235 kc/s. – **French:** Wed. 14.30–15.00 on 1340 kc/s. – **German:** Wed. 14.00–14.30 on 1340 kc/s. – **Folklore Music:** 1235 kc/s: Sun. 00.00–00.30.
ANN.: "This is R. Bermuda". – **V.** by QSL-card. R.p. – **Prgr.sched.** free on request.

★ COSTA RICA ★

L.T.: GMT÷6 h. – **P.L.:** Spanish. – **Po.:** 1.035.000. – **Revrs.:** 90.000. **E.C.:** 110 V., A.C., 60 c/s.

DEPARTEMENTO CONTROL NACIONAL DE RADIO
ADDR.: Apartado 3483, San José. – **Cable:** "Ranac". – **Te.:** 7339. – **L.P.:** Dir.: L. H. Andrés.

STATIONS: All st. comm. exc. 3) and 22) (Rel.), 15), 39 (Cultural).
Short Waves: Call: TI---. [1]) East & West. [2]) North & South.

	Call	kc/s	m	kW	m.w.	Name	H. of tr.
1)	Q	5954	50.39	1	1200	R. Casino	11.55–06.00
2)	HBG	6006	49.95	1	700	R. Reloj	12.00–06.00
3)	FC	6037	49.69	1d[1])	1075	Faro del Caribe	12.00–05.00
4)	GG	6075	49.38	1	1125	R. Excelsior	12.00–05.00
5)	GPH	6150	48.78	1	650	R. Monumental	
6)	DCR	9615	31.20	3	625	La Voz de la Victor	10.00–07.00
3)	FC	9645	31.10	1d[2])	1075	Faro del Caribe	12.00–05.00

Medium Waves: Call: TI---. °=Short Wave.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
7)	JJH	550	1.5	17)	CS	900	6	27)	ALC	1250	1
8)	JC	575	1	18)	LS	925	2	28)	RE	1275	1
9)	AV	600	1	19)	LC	950	1	29)	SBJ	1300	2
6)	DCR	°625	6	20)	RS	975	4	30)	CYM	1325	1
5)	BAS	°650	3.5	21)	CEC	1000	1	31)	WW	1350	1
10)	U	675	1	22)	AC	1025	2	32)	MAR	1375	1
2)	HB	°700	2	23)	RH	1050	1	33)	LG	1400	1
11)	LX	725	1	3)	FC	°1075	10	34)	CJ	1425	1
12)	RA	750	1	24)	EM	1100	1	35)	MMC	1450	1
13)	W	775	4.5	4)	GG	°1125	1	36)	HCJ	1475	1.6
5)	GPH-2	800	3.5	25)	SM	°1150	1	37)	ZZ	1500	1
14)	OS	825	1.5	11)	CA	1175	2	38)	EEAW	1525	1
15)	UCR	850	1	1)	Q	°1200	1	39)	MET	1550	1
16)	SS	875	1.3	26)	BSD	1225	1	40)	JJG	1575	1
								41)	EMH	1600	1

FM: 5) 88.0 mc/s.

Short Waves:
1) Apt. 287, Puerto Limon. – **L.P.:** Dir.: L. Villalobos. – **V.** by letter.
2) Apt. 341, San José. – **L.P.:** Dir.: R. Barahona G. – **V.** by letter.
3) Apt. 2710, San José. – **L.P.:** Mgr.: F. Cabezas B. Dir. Prgr.: W. Burchett. Dir. Tec.: F. Smith. – **D. Prgr.: On all fq's: Spanish:** W. 12.00–04.00. Sun. 12.30–20.00, 21.00–04.00. – **"Caravana Musical" (request prgr.):** W. 19.00–20.00, 22.00–23.00. – **English:** D. 04.00–05.00. Sun. 20.00–21.00. – **German:** Sun. 19.30–19.45. – **ANN.: E.** "You are tuned to TIFC, The Lighthouse of the Caribbean, transmitting from San José, Costa Rica, Central America". – **V.** by QSL-card. – **PUB.:** Prgr.sched. free on request.
4) Apt. 1774, San José. – **L.P.:** Dir.: G. Grillo O. – **V.** by QSL-card or letter.
5) Apt. 800, San José (TIGPH-2: Nueva Alma Tica). – **L.P.:** Dir.: L. Pinto S. – **V.** by letter.
6) Apt. 3611, San José. – **Cable:** "La Victor". – **L.P.:** Dir. Gen.: M. Acosta. Dir. Prgr.: J. Sanchez. Dir. Adm.: C. Acosta. Dir. Tec.: A. Alfaro. Dir. F. R.: H. Arias. – **D.Prgr.: N., Comm.:** 11.45, 12.30, 17.00, 21.00, 03.30, 04.50. – **Nat. Music:** 11.30, 20.30, 06.00. – **Wrp.:** 12.30. – **ANN.:** "Radio Internacional de Costa Rica" or "La Voz de la Victor". – **V.** by letter.

Medium Waves:
7) **R. Progreso,** Apt. 122, Alajuela. – **L.P.:** Dir.: E. Martínez.
8) **Radiopolis.** Apt. 854, San José. – **L.P.:** Dir.: J. Castro C.
9) **R. Selecta,** Apt. 4666, San. José. – 10) **R. Musical,** Apt. 854, San José.
11) **R. Columbia,** Apt. 708, San José (TICA: Apt. 708, Puntarenas).
12) **Radiolandia,** Apt. 2525, San José. – **L.P.:** Dir.: R. Aguilar V.
13) **R. City,** Apt. 835, San José. – **L.P.:** Dir.: A. Múrolo C. – **V.** by letter. Re. can be written in English. – 14) **R. Titania,** Apt. 512, San José.
15) **R. Universitaria,** San Pedro. – **L.P.:** Dir.: C. Salazar H. Dir. Tec.: A. Mora R. – D. Prgr.: 14.00–04.00 (Classical Music only). V. by letter.
16) **La Voz del Tropico,** Apt. 914, S. José. – **L.P.:** Dir.: G. Saénz O.
17) **La Voz de America,** Apt. 517, San José.
18) **Radion,** Guadalupe. – **L.P.:** Dir.: R. Castro. – 19) **R. Hispana,** Cartago.
20) **R. Athena,** Apt. 208, San José. - 21) **R. Cima,** San Ramón. – **L.P.:** Dir.: C. E. Córdoba.
22) **R. Fides** (Emisora Catolica), Apt. 1933, San José.
23) **R. El Mundo,** Apt. 1339, San José. – **L.P.:** Dir. R. Hine Ch.
24) **R. Pampa,** Apt. 3419, Nicoya. – 25) **R. Sport,** Apt. 4140, San José.
26) **R. Victoria,** Cartago. – 27) **R. Universal,** Apt. 3202, San José.
28) **R. Emmaus,** Coronado. – **L.P.:** Dir. Gen.: C. H. Rodriquez Q. Dir. Prgr.: V. Cot. Rigola. Dir. Tec.: A. D. Romero, A. Mora. – **D. Prgr.:** 11.50–03.15. – **F.Pl.:** Increase of power and s.w.
29) **R. Libertad,** Apt. 4075, San José. – 30) **R. Femenina,** Apt. 923, San José.
31) **R. Centro,** Puntarenas. – 32) **R. Tropical,** Heredia.
33) **R. Cariari,** Limón. – **L.P.:** as 1). – 34) **R. Sinai,** San Isidro del General.
35) **R. Golfito,** Puerto Golfito. – **V.** by letter.
36) **R. Regional,** San Carlos. – **V.** by letter. – **F.PL.:** sw.-st. in 49 m.b.
37) **La Voz del General,** San Isidro del General.
38) **R. Turrialba,** Turrialba. – **L.P.:** Dir.: D. Castro C.
39) **Servicio Metereologico,** Minist. Agricultura, San José.
40) **La Voz de Guanacaste,** Liberia. – 41) **R. Cadena Azul,** Santa Cruz.

★ CUBA ★

L.T.: GMT÷5 h. – **Pr.L.:** Spanish. – **Po.:** 6.410.000. – **Revrs.:** 1.100.000. – **E.C.:** 110/220/440 V., A.C., 60 c/s.

MINISTERIO DE COMUNICACIONES, Dirección de Radio.
ADDR.: Plaza de la República "José Martí", La Habana.
STATIONS: All st's comm. exc. 12).
Short Waves: Call: CO– –. *=currently inactive.

	Call	kc/s	m	kW	m.w.	Name & h. of tr.
1)	KC	*6317	47.50	1	850	R. Oriente
2)	CF	*6330	47.39	1	910	Union Radio
3)	CW	6435	46.62	1	590	R. Rebelde: 10.00–05.00
4)	BZ	9025	33.23	1	830	R. Salas: 16.00–04.00
5)	BQ	*9235	32.45	1	890	Onda Musical del Oyente
6)	BC	9362	32.05	1	690	R. Progreso: 10.30–06.00.
7)	CO	9530	31.46	0.25	980	R. Libre: 12.00–14.30, 16.00–05.00
8)	JK	9620	31.19	1	1160	La V. del Camagüeyano: 12.00–05.00
9)	CQ	9670d	31.02	1	630	Circuito CMQ: 10.30–05.00
10)	BL	*9833	30.51	1	860	R. Aeropuerto
11)	BH	*11800	25.42	1	790	R. Cadena Habana
12)		15340	19.56	1	1010	R. Emis. del Ministerio de Educacion: irregular

Medium Waves: Call: CM---. °=Short Waves.
Habana: 14 low power stations (less 1 kW)

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
13)	CY	550	15	11)	CH	°790	10	7)	CK	°980	5
3)	W	°590	25	4)	BZ	°830	5	12)	Z	°1010	10
9)	Q	°630	25	10)	BL	°860	15	18)	CX	1060	10
14)	CU	660	5	5)	CQ	°890	0.25	19)	BQ	1150	5
6)	BC	°690	50	2)	CF	°910	10	20)	CI	1260	5
15)	CA	730	10	17)	BF	950	10	21)	CB	1330	1
16)	CD	760	10								

Camagüey: 8) J K °1160 kc 1 kW – Oriente: 9) K U °630 kc 2 kW 1) K C °850 kc 1 kW.
At the time this edition went to print no more details could be obtained.

Short Waves:
1) Aguilera 511, Santiago de Cuba. – **D. PRGR.:** M.w.: 10.30–05.00.
2) Apt. 3237, Habana. – **D. PRGR.:** W. 10.56–05.57. Sun. 10.56–05.00. **N.:** 11.00, 17.00(W), 23.00(W). – **ANN.:** "Union Radio y su cadena de Emisoras IS Bella Cubana".
3) Ca. O. 157, Apt. Correos 3540, Habana. – **ANN.:** "Radio Rebelde transmitiendo desde su planta matriz CMW 590 kc/s en la Habana, Cuba". – **INT.-SIG.:** 2 bellstrokes. – **V.** by QSL-card.
4) San Rafael 108, 2° Piso, Habana. – **D. PRGR.: N.:** W.: 17.35, 20.00, 00.00. – **N. in Chinese:** 18.30(exc. Sun.). – **V.** by QSL-card.
5) Av. Menocal 801, Habana.
6) Av. Menocal 105, Habana. – **ANN.:** "Radio Progreso – La Onda de la Alegria".
7) Av. Independencia 1320, Habana. – **D. PRGR.: N.:** 12.00 (exc. Mo.), 12.30(exc. Mo.), Sun.: 16.30, 17.00, 23.00. – **V.** by letter.
8) Finlay 4, Camagüey. – **V.** by QSL-card.
9) Edif. Radiocentro, Habana. – **ANN.:** "CMQ desde Radiocentro Habana". – **INT.-SIG.:** "Canto Siboney" played on organ. – **V.** by QSL-card.
10) Apt. 541, Habana. – **ANN.:** "Radio Aeropuerto – Frequencia de Oro – Emisora Internacional". – **V.** by QSL-card or letter.
11) San José 104, Habana. – **D. PRGR.:** M.w.: 11.00–07.00.
12) Av. de la Libertad 8427, Marianao, Habana. Te.: 20–9155.
ANN.: "R.emisora CMZ del Ministerio de Educación, Voz Libre America Nuestra, La Habana, Cuba". – **F.PL.:** 100 kW s.w. tr. to operate on 6060, 9685, 11715, 15340, 17750 kc/s.

★ DOMINICAN REPUBLIC ★

L.T.: GMT÷5 h. – **Pr.L.:** Spanish. – **Po.:** 3.013.525. – **Revrs.:** 94.827. – **E.C.:** 110/220/440 V., A.C., 60 c/s.

DIRECCION GENERAL DE TELECOMUNICACIONES
ADDR.: Ci. Trujillo, D.N. – **Cable:** "Telecom". – **Te.:** 22244.
STATIONS: Approx. 11.00–05.00 (exc. where indicated). All comm.

Short Waves: Call: HI---.

	Call	kc/s	m	kW	m.w.	Name&h. of tr.
1)	1Z	3245	92.44	0.5	1350	Broadc. Nacional: 12.00–06.00
2)	7T	3285	91.32	1	*)	La Voz Dominicana: 11.00–04.35
3)	2N	3310	90.63	0.25	1220	Radio HIN: 11.00–05.00
4)	1SA	3325	90.23	1	980	La Voz de la Reeleccion
5)	2S	3345	89.68	1	1150	Onda Musical: 11.00–04.00
6)	2P	3355	89.42	0.25		Emisora HI2S
7)	4F	3360	89.29	1	820	R. Santiago
8)	2D	3385	88.63	0.6	1600	R. Hit Musical: see below
9)	5C	4860	61.73	0.25	1250	La Voz del Progreso: 11.00–03.00
10)	5B	4890	61.35	0.25	1330	Emisora HI4B/5B: 11.00–03.00 [1]
11)	9B	4910	61.10	0.5	1050	Emisora HI9B/8B
12)	2JP	4970	60.36	1	1020	R. Comercial
13)	3K	4980	60.25	1	1450	Ondas de Yaque: 11.00–04.00
14)	2MS	5010	59.88	1	580	Emisora HIMS/2MS
15)	3C	5030	59.64	1		La Voz del Papagayo
16)	2L	5055	59.36	0.5	790	La Voz del Tropico
2)	4T	5970	50.25	7.5	*)	La Voz Dominicana: 11.00–04.35
17)	1J	6025	49.79	0.1	1320	La Voz de Oriente: 16.45–02.00
7)	8Z	6060	49.50	0.5	820	R. Santiago: 23.00–04.00
1)	1Z	6112	49.08	1	1350	Broadc. Nacional: 11.45–04.30
18)	1G	6130	48.94	0.25	950	R. difusora HIG
19)	1R	6160	48.70	0.2	1450	La Voz de Fundacion: 16.00–24.00
20)	9U	6190	48.47	0.1	1240	Broadc. Tropical: 11.00–03.00
21)	2U	6210	48.31	20	**)	R. Caribe: 10.00–07.00
21)	3U	9485	31.63	50	**)	R. Caribe: 10.00–07.00
18)	2G	[2])9590	31.28	0.25	950	R. difusora HIG
2)	2T	9735	30.82	7.5	*)	La Voz Dominicana: 11.00–04.35

*) 620/1360/1380/1440 kc/s. **) 860/1270/1300/1310/1340/1370/1400 kc/s. [1]) Reported on 6325 kc/s. [2]) inactive.

Medium Waves: Call: HI---. °=Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
14) MS	°580	1	26) FD	1160	1	21) UF	1340	1
17) 1J	°610	0.5	27) DV	1190	0.5	1) Z	°1350	1
2) 3T	°620	10	3) N	°1220	1	2) 6T	°1360	1
22) MD	760	0.5	28) 1L	1230	0.25	21) UC	1370	1
16) L	°790	0.5	20) 8U	°1240	0.25	2) 8T	°1380	1/0.1
7) 9Z	°820	1/0.1	29) Q	1240	0.25	21) UD	1400	1
21) U	°860	5	30) 4V	1240	0.25	33) 2A	1440	0.04
23) 3A	910	0.25	9) 4C	°1250	1	2) 9T	°1440	0.25
18) G	°950	0.25	31) T	1260	0.25	34) 5K	1440	0.25
4) SA	°980	0.75	21) UA	1270	5	13) 2K	°1450	0.25
12) JP	°1020	1	21) UB	1300	1	19) 2R	°1450	0.25
11) 8B	°1050	1/0.1	32) 3V	1310	0.5	35) 2H	1490	0.2
24) MC	1100	0.5	21) UE	1310	1	36) 1A	1490	0.25
25) RM	1120	1	17) PD	°1320	1	8) D	°1600	0.05
5) 3S	°1150	1	10) 4B	°1330	0.5			

Short Waves:

1) Edificio Copello, Ca. el Conde, Ci. Trujillo. – **L.P.:** Dir.: Ing. F. Hatton. – **ANN.:** "Transmiten Emisora HIZ y HIZ, Ci. Trujillo, La Republica Dominicana".

2) Av. Ci. de Miami 8, Ci. Trujillo. **Cable:** "Dominicana". – **L.P.:** Pres.:J. A. Trujillo M. Dir. Gen.: A. E. Santamaria D. – **D.PRGR.:** N.: 11.00, 15.00, 19.00, 21.00, 03.30. – **English:** 02.00–02.15. – **ANN.:** "Al Servicio del progreso y la cultura en general, transmite La Voz Dominicana, desde Ciudad Trujillo, Distrito Nacional Capital de la República Dominicana". – **V.** by QSL-card.

3) Apt. 287, Ci. Trujillo. **Cable:** "Rahin". – **L.P.:** Dir. Gen.: H. L. Diaz. Mgr.: P. P. Bonilla P. Dir. Tec.: J. Salazar. – **D.PRGR.:** N.: 12.05, 22.50, 04.00. – **Folklore Music:** 14.50.

4) Ca. Pres. Trujillo Esq. B. Monción, Santiago de los Caballeros.

5) Av. Mella 25, 2° piso, Ci. Trujillo. – 6) La Romano.

7) Ca. 30 de Marzo 35, Santiago de los Caballeros.

8) 30 de Marzo esq. Jose Trujillo V. Te.: 3246. – **L.P.:** Dir. Gen.: M. A. Jorge A. – **D.PRGR.:** Mo.-Fri. 11.00–05.00, Sat. 11.00–06.00, Sun. 13.00–01.00. – **N.:** 23.15. – **Folklore Music:** 13.30, 19.00. – **ANN.:** "Radio Hit Musical, HID-HI2D, 16.00 y 3385 kc/s, Santiago de los Caballeros, Rep. Dominicana". – **V.** by QSL-card.

9) P. O. Box 267, San Francisco de Macoris. **Te.:** 2845. – **L.P.:** Dir. Gen.: J. Raposo P. Dir. Tec.: J. Raposo P. – **D.PRGR.:** 11.00–05.00. – **N.:** 01.00. – **ANN.:** "Por la Cultura del Pueblo y la Prosperidad de la la Patria, transmite La Voz del Progreso". – **V.** by QSL-card.

10) Ca. M.ximo Gómez 14, Santiago de los Caballeros.

11) Ca. 30 de Marzo 54, Santiago de los Caballeros. – **V.** by QSL-card.

12) Las Mercedes 12, Ci. Trujillo. – **L.P.:** Dir.: J. A. Brea P.

13) Edificio El Rubio, 3° piso, Santiago de los Caballeros. – **Te.:** 2144. – **L.P.:** O.: R. Candelario L. – **V.** by QSL-card.

14) Ci. Trujillo. – 15) Cada Puerto Rico, La Romano.

16) Ca. Abreu 30, Ci. Trujillo. – **V.** by QSL-card.

17) Ca. Sanchez 135, San Pedro de Macoris. – **L.P.:** O.: F. M. Donastorg. – **V.** by QSL-card.

18) Edificio Yaar El Conde 90, 4° piso, Ci. Trujillo. – **L.P.:** O.: A. Cordero P. – **ANN.:** "Radiodifusora Nacional, Emisora HIG, República Dominicana".

19) Hotel San Cristóbal, San Cristobal. – **L.P.:** O.: L. Alberti. – **ANN.:** "Transmite La Voz de Fundación desde San Cristobal, Republica Dominica". – **V.** by QSL-card.

20) Apt. 403, Puerto Plata. – **V.** by QSL-card.

21) Ci. Trujillo – **L. P.:** Pres. J. Marti Ortero – **Stations:** HIU Ci. Trujillo. HIUA Santiago, HIUB Dajabon, HIUC Barahona, HIUD San Juan, HIUE El Siebo. HIUF Jimani – **ANN.:** „R. Caribe, La Voz Antillana que da la vuelta al mundo" – **V.** by letter.

Medium Waves:

22) **Emisora HIMD,** Peña-Tamboril – **L.P.:** O.: L. McDugal, A.Dajer.

23) **Emisoras Unidas,** Edificio Ocaña, Arz Meriño, Ci. Trujillo.

24) **Emisora HIMC,** San Cristóbal. – **L.P.:** O.: M. Furment U.

25) **Emisora HIRM,** S. Francisco de Macoris. – **L.P.:** O.: D. Valerio.

26) **La Voz del Atlantico,** Ca. Pres. Trujillo 21, Puerto Plata.

27) **Diocesis de La Vega,** Santa Cerro, La Vega.

28) **La Voz del Camu,** Av. José Trujillo Valdez 2, La Vega.

29) **Emisora HIQ,** San Pedro de Macoris. – **L.P.:** O.: D. Aguiló.

30) **La Voz del Biran,** Barahona. – 31) **R. Cristal,** Ci. Trujillo.

32) **R. Bani – La Voz del Sur,** Uladislao Gonz.lez 12, Bani.

33) **La Voz de Quisqueya,** San Juan – 34) **Emisora HI5K,** Ci. Trujillo.

35) **La Voz de la Alegria,** Ca. Real 119. Ci. Trujillo.

36) **La Voz del Cibao,** Ca. Cardona 81, Moca.

★ EL SALVADOR ★

L.T.: GMT ÷ 6 h. – **Pr.L.:** Spanish. – **Po.:** 2.400.000. – **Rcvrs.:** 40.000. – **E.C.:** 110/220 V., A.C., 60 c/s.

GOVERNMENT DEPT. FOR BROADCASTING

ADDR.: Ministerio del Interior, Palacio Nacional, San Salvador.
STATIONS: All st's com. exc. R. Nacional.

Short Waves: Call: YS---. *) = inactive

	Call	kc/s	m	kW	m.w.	Name & h. of tr.
1)	W	5985	50.13	1	930	R. del Pueblo
2)	S	6010	49.92	5	655	R. Nac. de El Salvador: 18.00–04.00
3)	C	6096	49.21	1	1015	Ondas Populares y Deportivas: 11.00–06.00
4)	P	6150	48.78	0.3	780	La Voz de Cuscatlan: 16.00–20.00
5)	HQ	6170	48.62	0.25	950	La Voz del Progreso: 16.00–20.00, 23.00–05.00
6)	UA	6190	48.47	1	1050	R. Mil Cincuenta: 12.00–06.00
7)	V	*9545	31.43	1	1280	La Voz del Comercio
2)	S	9555	31.40	5	655	R. Nac. de El Salvador: 18.00–04.00
8)	Y	*11725	25.58	1	970	R. Victoria
9)	AX	*11950	25.10	1	800	La Voz Panamericana

Medium Waves: Call: YS---. °=Short Waves. *=Under constr.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
10) ABC	560	5	1) W	°930	1	22) CB	1175	1
2) S	°655	10	5) HQ	°950	1	23) HP	1200	0.25
11) QR	700	5	8) Y	°970	1	24) MA	1230	0.5
12) KL	760	0.5	17) DF	990	10	25) I	1250	3
4) P	°780	5*	3) C	°1015	10	7) V	°1280	1
9) AX	°800	5	6) U	°1050	10	26) HX	1300	0.5*
13) DR	820	1	18) EB	1080	10	27) LA	1330	1*
14) F	840	0.5	19) G	1130	2*	28) JA	1400	1
15) O	870	1*	20) CF	1150	1	29) HF	1430	0.5*
16) QJ	910	10	21) AR	1160	1	30) JL	1450	10 *

St. 1), 6), 10) & 11) owned by R. Television YSU, S.A., San Salvador.

Short Waves:

1) Santa Ana. – **D. PRGR.:** 12.00–05.00. – **V.** by QSL-card.

2) Alma Cuscatleca Altos del Edificio del Teatro Nacional, San Salvador. – **L.P.:** Mgr.: D. M. de J. Salazar. Dir. Prgr.: R. S. Mendoza. Dir. Adm.: A. A. Mixco. Dir. Tec.: G. C. Vides. – **D. PRGR.:** N.: 18.00, 21.00, 22.00, 00.15, 02.00, 03.00. – **Folklore Music:** 19.00–19.30 (exc. Sun.). – **Wrp.:** 18.00, 03.00 (exc. Sun.). – **ANN.:** "Transmite R. Nacional de El Salvador, en la América Central". – **INT.-SIG.:** Four notes on xylophone. – **V.** by QSL-card and prgr.sched.

3) 29 Ca. Oriente 218, San Salvador. – **ANN.:** "Esta es YSC, R. 1015 Ondas Populares y Deportivas en San Salvador, Centro América, Laboremos por la Paz, la Cultura y el Deporte".

4) Cojutepeque, Dept. de Cuscatlan.

5) Costade Poinente Estadio Oriental, San Miguel.

6) Av. Cuscatlan y 12a Ca. Poniente 2, Apt. Postal 1050, San Salvador. **D. PRGR.:** N.: W.: 12.15, 16.00, 19.30, 23.00, 03.45. – **V.** by letter. – 7) Santa Ana, Dept. de Santa Ana.

8) Ca. Gerardo Barrios 627, San Salvador.

9) 2a Av. Norte 319, San Salvador. – **Cable:** "YSAX". – **L.P.:** Dir. Gen.: O. A. Bolanos. Dir. Tec.: J. V. Moran. – **D. PRGR.:** 12.00–05.00. – **Folklore Music:** W. 12.00. – N.: 12.30, 19.30.

Medium Waves: D. PRGR.: Approx 12.00–05.00.

10) **Radioemisora Salvadorena,** San Miguel.

11) **R. Morazan,** Colonia Alfaro, Ci. de Mejicanos.

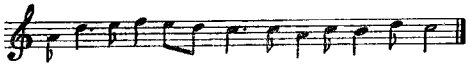
12) **R. Universal,** 4a Ca. Oriente 228, San Salvador.

13) **Ondas Tropicales,** Av. Independencia Sur 6, Santa Ana.
14) **R. Vanguardia,** 7a Ca. Oriente 508, San Salvador. – **D. PRGR.:** 18.00–20.00, 00.00–04.00.
15) **La Voz de la Democracia,** 6a Ca. Oriente 28, San Salvador.
16) **R.dif. YSQJ.** San Salvador.
17) **La Voz del Tropico,** 4a Av. Norte 230, San Salvador.
18) **La Voz de Latinoamérica,** 2a Av. Norte 230, San Salvador.
19) **R. Chaparrastique,** San Miguel.
20) **Ondas Orientales,** 2A. Av. Sur 48, S. Miguel.
21) **R. America,** San Salvador.
22) **La Voz del Pacifico,** 6a Av. Norte 15, Sonsonate.
23) **R. Ciros,** 10a Ca. Poniente 314, San Salvador.
24) **La Voz Suprema de Occidente,** 25 Ca. Oriente 10, Santa Ana.
25) **R. Emperador,** 3a Ca. Poniente 419, San Salvador.
26) **R. Cristal,** Sonsonate. – 27) **R. Musical,** Santa Ana.
28) **R.dif. YSJA,** Usulutan. – 29) **R. Caribe,** Cojutepeque, Dept. de Cuscatlan.
30) **R. Presencia San** Salvador.

★ GUADELOUPE (French West Indies) ★

L.T.: GMT÷4 h. – **Pr.L.:** French. – **Po.:** 250.000. – **Rcvrs.:** 6.000.

RADIO GUADELOUPE (R.diff. Télévision-Française)
ADDR.: Basse-Terre.
HOME SERVICE: 650 kc/s 462 m 1 kW – 1420 kc/s 211 m 0.05 kW W.: 10.20–11.30, 16.15–17.45, 22.45–01.00. Sun.: 11.20–13.30, 16.15–18.00, 22.45–01.00.
ANN.: "Ici Basse Terre, Radiodiffusion Française". – **INT.-SIG.:** Guitar. – **V.** by QSL-card or letter. R.p.



★ GUATEMALA ★

L.T.: GMT÷6 h. – **P.L.:** Spanish. – **Po.:** 3.800.000. – **Rcvrs.:** 36.000. – **E.C.:** 110/220 V., A.C., 60 c/s.

DIRECCION GENERAL DE RADIODIFUSION Y TELEVISION NACIONAL
ADDR.: Edificio de la Tipografia Nacional, Calle 18 de Septiembre 6–72 Zona 1, Guatemala. – **Cable:** "Tevenac". – **Te.:** 23318. – **L.P.:** Dir. Gen.: C. Talavera y Murga. Sub-Dir. Gen.: L. Orantes Alfaro. Chief of TV Production: M. Piedra Santa.
STATIONS: All st. comm. exc. 15), 19) (Go.) and 2) (Rel.).

Short Waves: Call: TG---. *) Currently inactive.

	Call	kc/s	m	kW	m.w.	Name and h. of tr.
1)	LAB	4900	61.22	0.02	1245	R. Victoria
2)	NA	5952	50.40	5	720	R. Cultural: see below
1)	LA	5970	50.25	0.5	1245	R. Victoria
3)	AR	5980	50.17	1	1270	R. Quetzal: W. 11.45–06.00, Sun. 13.00–02.00
4)	JA	5990	50.08	3	880	R. Nuevo Mundo: 12.00–05.00
5)	TA	6000	50.00	3	1390	R. Sonora: 11.55–06.00
6)	DA	6020	49.83	1	1070	La Voz de Occidente: 11.00–05.00
7)	TQ	6030	49.75	5	810	R. Internacional: 14.00–02.00
8)	CO	6040	49.67	0.5		La Voz del Trópico
9)	XB	6050	49.59	0.8	1040	R. Centro Musical: 12.00–04.00
10)	XX	6060	49.50	1.5	850	R. Ciro's: 12.30–06.00
11)	RLA	6060	49.50	1	1180	R. Landivar: 12.00–06.00
12)	PA	6070	49.42	0.25	575	R. Palmeras: see below
13)	CB	6080	49.34	0.25	1190	R. Colonial (Outside Broadcasts)
14)	OA	6100	49.18	1	1140	La Voz de las Americas: 11.00–06.00
15)	QA	6110	49.10	0.5	***	R. Nacional: W. 13.00–04.00, Sun. 18.00–02.00
16)	HC	6140	48.86	0.5	780	R. Universal: W. 12.00–06.00, Sun. 14.30–04.30
17)	AZ	6150	48.78	0.5	950	R. Continental: 12.00–06.00
18)	ZA	6160	48.70	0.25	1170	R. Club
19)	WB	6180	48.54	1	**	R. Nacional: 11.55–06.00
20)	RT	6190	48.47		1280	R. Nacional Tikal: 02.00–05.00 a)
21)	KN	6200	48.39	0.1	1100	R. Latina: W. 13.00–06.00, Sun. 20.00–02.00
2)	NB	9668	31.03	5	720	R. Cultural: 03.00–04.00
19)	WA	*9685	30.98	10	**	R. Nacional
15)	QB	11700	25.64	1	***	R. Nacional: W. 13.00–24.00, 01.00–04.00, Sun. 18.00–02.00
22)	CX	*11750	25.53	0.5	1080	R. Cristal
2)	NC	*11850	25.32	5	720	R. Cultural

) 640/1520 kc/s * 860/1310 kc/s. a) reported on 6250.

Medium Waves: Call: TG---. °=Short Wave.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
23)	IC	560	10	31)	CQ	980	1	38)	LG	1250	0.5
12)	PR	°575	0.4	32)	AH	1000	0.2	3)	AQ	°1270	1
24)	Y	590	1	33)	UX	1020	1.5	15)	TU	°1280	0.35
25)	RT	610	0.25	9)	XA	°1040	10	20)	FP	°1280	1
19)	W	°640	10	34)	AF	1060	2	39)	MU	1300	0.02
26)	RS	680	2	6)	D	°1070	2	15)	Q	°1310	1
27)	HR	700	0.3	22)	C	°1080	0.35	5)	T	°1390	10
2)	N	°720	5	21)	K	°1100	0.8	40)	AC	1400	0.5
28)	RF	750	0.5	35)	RR	1120	0.5	41)	GH	1410	0.5
29)	BX	770	0.5	14)	O	°1140	0.8	42)	RP	1420	0.5
16)	HB	°780	1	18)	Z	°1170	0.5	43)	MS	1450	0.5
7)	TO	°810	5	11)	RL	°1180	2	44)	AG	1460	0.5
10)	X	°850	1.5	13)	CA	°1190	0.25	45)	IZ	1470	0.5
15)	SM	°860	0.35	36)	ED	1210	1	46)	HU	1480	0.5
4)	J	°880	5	37)	LL	1230	0.5	19)	WC	°1520	1
30)	TL	920	5	1)	L	°1245	0.5	47)	RE	1540	1
17)	AX	°950	1	FM: 11) 95.0 mc/s 0.1 kW.							

Short Waves:
1) 8a. Calle Poniente 18, Mazatenango, Such. – **L.P.:** Dir. V. Arias C.
2) Apt. 601, Guatemala (Owned by Central American Mission, 3611 Congress Ave., Dallas 19, Texas, USA). – **L.P.:** St. Dir. & Dir. Tec.: G. Liebig. Dir. Prgr.: D. Rutledge. – **D.PRGR.: Spanish:** On 720/5952 kc/s: 12.15–14.00, 18.00–20.30, 22.30–03.00. **English:** On 5952/9668 kc/s: 03.00–04.00. – **V.** by QSL-card or letter. Return postage required.
3) 12 Av. 26–27, Z-5, Guatemala. – **L.P.:** Dir.: M. Tulio de la Rosa. – **ANN.:** "Guatemala, Aqui es Radio Quetzal 1270 kc/s onda larga, 5975 kc/s onda corta en banda de 49 metros".
4) 6a. Ave. 10–45, Z-1, Guatemala. – **V.** by QSL-card.
5) 5a. Ave. 16–38, Z-1, Guatemala. – **L.P.:** Dir.: M. Ruiz Tejada. – **ANN.:** "Radio Sonora la emisora que de la hora 1390 kc/s onda larga, 6000 kc/s onda corta en 49 metros".
6) 7a. Ave. 0–26, Z-1, Quezaltenango. – **L.P.:** Dir. J. A. Illescas.
7) 12 Ca. 5–62, Z-1, Guatemala. – **L.P.:** O. & Dir.: J. Monteros L. – **ANN.:** "La Voz de la Capital desde Guatemala". – **INT.-SIG.:** Electrical Xylophone. – **V.** by QSL-card.
8) 7a. Ave. 4a. Ca. Coatepeque, Quezaltenango.
9) Pasaje Aycinena 8–27, Z-1, Guatemala. – **L.P.:** Dir.: J. A. Fernandez. – **ANN.:** "TGXA Radio Centro Musical 1050 kc/s onda larga, 6050 kc/s en banda internacional de 49 metros". – **V.** by QSL-card or letter.
10) 8a. Ca. 2–28, Z-1, Guatemala. – **L.P.:** Dir.: J. Llerena. – **ANN.:** "Radio Ciro's la emisora musical de Guatemala, onda larga 850 kc/s TGX, onda corta 6060 kc/s TGXX". – **V.** by QSL-card or letter.
11) 4a. Ave. 14, Quezaltenango. – **L.P.:** Dir. Gen.: C. A. Diaz. Mgr. and Dir. Tec.: H. Diaz M. – **F.PL.:** TGRL 10 kW Feb. 1961.
12) 5a. Ave. Norte 43, Escuintla. – **L.P.:** Dir. C. H. Melgar P. – **D.PRGR.:** W. 12.55–19.30, 01.30–03.00. Sun. 13.25–19.30, 00.45–03.00.
13) Ca. Portocarrero 6, Antigua. – **L.P.:** Dir.: J. G. Palencia.
14) 2a. Ave. 13–39, Z–1, Guatemala. – **L.P.:** Dir.: C. Bock M. – **ANN.:** "La Voz de las Americas saludando toda America desde la Ciudad de Guatemala". – **V.** by QSL-card or letter.
15) 14 Ave. C–47, Z-1, Quezaltenango (TGSM: Palacio Maya, San Marcos). – **L.P.:** Dir. Gen.: F. Salazar Valdés. Dir. Prgr.: G. Estella Izaguirre. Dir. Tec.: C. Adolfo Linde. – **D.PRGR.: N.:** 13.00, 17.45, 18.45, 19.45, 01.00, 01.45. – **Folklore Music:** 15.00, 18.00, 02.00. – **Rel.:** Tues. 21.30, Sun. 18.00, 00.45. – **ANN.:** "TGQ, Radio Nacional Quezaltenango, Guatemala". – **V.** by QSL-card or letter. No. r.p. required. – **PUB.:** Monthly prgr.sched. free on request.
16) 7a. Ave. 14–74, Z-1, Guatemala. – **L.P.:** Dir.: M. T. Conde. – **ANN.:** "Radio Universal y Radio Central en cadena". – **V.** by QSL-card or letter.
17) 13 Ca. 12–26, Z-1, Guatemala. – **L.P.:** Dir.: R. Viscaino R. – **ANN.:** "Difunde la Emisora mas perfecta y de alta calidad, Radio Continental, una emision para toda la República" – **V.** by QSL-card or letter.
18) 4a. Ave. 12–74, Z–1, Guatemala. – **L.P.:** Dir.: H. E. Sagastume.
19) Ca. 18 de Septiembre 6-72, Z-1, Guatemala. – **L.P.:** Dir.: C. Talavera y Murga. – **ANN.:** "Radio Nacional TGW, TGWA, TGWB, TGWC". – **V.** by QSL-card or letter. – **F.PL.:** Two 50 kW m.w. tr., 20 kW s.w.
20) Flores Peten. – **L.P.:** Dir.: G. H. Morales.
21) 3a. Ca. 10-10, Z-1, Guatemala. – **L.P.:** Dir.: R. Contreras. – **V.** by QSL-card. – 22) 4a. Ave.18–72, Z-1, Guatemala.

Medium Waves: D.PRGR.: Approx. 12.00–05.00.
23) **R. Metropolitana,** Palacio Arzobispal, Z-1, Guatemala.
24) **R. Progreso,** Ca. Marti 10–39, Z-2, Guatemala.
25) **R. Tacana,** "La Voz San Pedrana", San Pedro Sacatepequez, San Marcos. – **L.P.:** Dir. J. A. Mansilla.
26) **R. Sur,** Escuintla. – **L.P.:** Dir.: J. I. Soto.
27) **R. Mundial,** 2a. Ave. 6–45, Z-1, Guatemala.
28) **R. Faro Aviateca,** 2a. Ca. 6-33, Z-9, Guatemala.
29) **R. Corporacion,** Quezaltenango. – **L.P.:** Dir.: E. Toralla L.
30) **La Voz de la Telefunken,** 4a. Ca. y 20 Ave., Z-14, Guatemala.

Cable: "Telefunken". – **FI.:** By advertisements. – **L.P.:** Dir. Gen.: E. Mayorga L. Mgr. W. Proesamer. Dir. Tec.: H. Möller A. – **D.PRGR.:** 12.30–06.00. – **N.:** 12.30. – **Comm.:** 14.30, 20.30. – **Prgr. in German & English:** Mo. 03.00–04.00. – **INT.-SIG.:** Gong.

31) **R. Central,** 7a. Ave. 14–74, Z-1, Guatemala. – **L.P.:** as 16).

32) **R. Mil,** 11 Ca. 4–52, Z-1, Guatemala. – **L.P.:** Dir.: G. Galán P.

33) **R. Panamericana,** 13 Ave. 12–67, Z-1, Guatemala. – **L.P.:** Dir. J. Paniagua S. – **D.PRGR.:** W. 11.55–06.00, Sun. 11.55–05.00.

34) **R. Indiana,** Av. Libertad, Mazatenango. – **L.P.:** Dir.: C. Salazar.

35) **R. Reloj,** 16 Ca. 3–32, Z-1, Guatemala. – **L.P.:** Dir.: M. Johnston. –

36) **R. Mil,** Puerto Barrios, Izabal (relay of TGAH).

37) **R. Constelacion,** "La Emisora de los Astros Musicales", 10a. Ca. 6–22, Z-1, Guatemala. – **L.P.:** Dir.: A. Bravatti.

38) **R. Jumay,** "La Voz de los Mayas", Ave. Bolivar 38–42, Guatemala.

39) **La Voz de la Buena Musica,** 13 Ca. 9-62, Z-1, Guatemala. – **L.P.:** Dir.: M. Wunderlich. – **D.PRGR.:** 13.00–05.00. – **F.PL.:** 5 kW.

40) **R. Cultural de Colomba,** Colomba, Quezaltenango. – **L.P.:** Dir.: O. Garcia. – 41) **R. Xelaju,** Quezaltenango. – **L.P.:** Dir.: G. H. Aguilar.

42) **La Voz de la Eterna Primavera,** 8a.Ca. 3-18, Z-1, Guatemala. – **L.P.:** Dir.: C. Armas. – 43) **R. Nacional,** 4a. Ave. y 8a.Ca., Mazatenango.

44) **La Voz de Huehuetenango,** 6a. Ave. 14 Ca., Huehuetenango. – 45) **La Voz del Atlantico,** Puerto Barrios, Izabal. – **L.P.:** Dir.: F. Monteagudo. – 46) **R. Hunapu,** Antigua. – **L.P.:** Dir.: R. E. González.

47) **R. Modelo,** "La Voz de Retalhuleu", Ca. Ferrocarril, Retalhuleu. –

★ HAITI ★

L.T.: GMT ÷ 5 h. – **Pr. L.:** French, Creole. – **Po.:** 3.344.000. – **Rcvrs.:** 21.000. – **E.C.:** 115 V., A.C., 60 c/s.

STATIONS: Comm. exc. R. Lumiere, R. 4VEH. * inactive.

Short Waves: Call: 4V–––. LV = La Voix. WI = West Indies.

Call	kc/s	m	kW	m.w.	Name & h. of tx.
1) U	2410	124.5	0.25	**	R. Lumière: 10.30–13.00, 22.00–03.30. Sun. 10.30–03.00
2) GS	5020	59.76	0.4	755	R. Indépendance: 11.00–14.00, 17.00–20.00, 23.00–02.30
3) PM	5040	59.52	0.225		LV du Nord Ouest: 11.00–19.00, 23.00–03.00
4) RM	5060	59.29	0.4		LV des Gonaives: 11.00–13.00, 17.00–19,00. 22.00–03.00
5) CB	5740	52.26	0.3		LV du Sud: 19.30–03.00
6) EC	6000	50.00	2.5	1040	LV Evangélique
7) EB	6005	49.96		1150	R. Caraibes: 10.00–04.00
1) O	6090	49.26	0.25	**	R. Lumière: as 2410 kc/s.
8) B	6091	49.26	7.5	1080	R. Commerce: 11.00–14.00, 22.00–03.30. Sun. 12.00–24.00 1)
9)	6100	49.18	0.54		LV de la Vie Marie: 11.30–12.00, 22.30–23.30 (Mo. 00.00–00.30)
6)	6120	49.02	0.5	1040	LV Evangélique
10) WA	6155	48.74	0.15		R. Citadelle: 12.00–15.00, 18.30–03.00
11) ES	6178	48.55	1		LV de St. Marc: 11.00–01.00
12) HW	6200	48.39	1.2	1330	R. Haiti: 11.00–04.00, Sun. 13.30–00.30
13) CP	6220	48.23	0.3	1490	LV du Nord: 12.00–15.00, 20.30–01.30
8) C	*9485	31.63	7.5	1080	R. Commerce
6) WI	9770	30.71	0.5	1040	LV Evangélique:
6) WI	11835	25.35	0.4	1040	LV Evangélique
12) RW	*15240	19.69	0.8	1330	R. Haiti
6) WI	21520	13.94	0.4	1040	LV Evangélique

** 760/780/830/1180 kc/s. [1]) reported on 5985 kc/s.

Medium Waves: Call: 4V–. ° = Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
14)	590	0.065	16)	1010	0.25	18) M	1250	1
2) I	°755	1	6) EH	°1040	2.5	12) W	°1330	2
1) UE	°760	0.5	8) A	°1080	1.0	19) S	1385	1
1) I	°780	1	7) AB	°1050		20) GM	1430	1
1) IA	°830	0.5	1) IE	°1180	0.25	13) EA	°1490	0.6
15)	980		17)	1185				

Short Waves:

1) B. P. 71, Cayes. – **L.P.:** Dir. Gen.: L. Markwood. Dir. Tec.: D. Hartt. – **D.PRGR.:** N.: 12.00.: 12.30, 00.00, 00.30, 01.50. – **Wrp.:** 12.30, 00.30. – **L.L.: English:** Mo.-Wed. 11.35, 01.00. **Spanish:** Thurs.-Sat. 11.35, 01.00. – **M.w. st's:** 4VUE Port-au-Prince, 4VI Cayes, 4VIA l'Artibonite (from March 1961), 4VIE Jérémie. – **V.** by letter. – **PUB.:** Prgr.-sched. by request.

2) Gonaives. – **ANN.:** "Ici Radio Indépendance, Poste 4VGS à Gonaives, Rép. d'Haiti, Grandes Antilles. – **V.** by QSL-card. 3) Port de Paix.

4) B. P. 112, Gonaives. – **ANN.:** "Ici La Voix des Gonaives, Radiodiffusion populaire émettant des Gonaives, Haiti, Grandes Antilles". – **V.** by letter. 5) Cayes. – **D.PRGR.:** N.: 20,00, 22.00, 00.30. Sun. 21.00.

6) **R. Station 4VEH,** Box 1, Cap Haitien. – **L.P.:** Dir. Gen.: Dr. E. Erny. Mgr., Dir. Tec.: M. E. Picazo. – **D.PRGR.:** On 1040/6000/9770/11835/21520 kc/s: Sun. 10.45–14.00, 18.00–04.30. W. exc. Thurs. 09.45–14.00 (Sat.14.30).17.00–19.00, 22.45–01.00 (exc.Wed.), 01.00–04.30 (Mo. & Sat. only). – **English:** Sun. 10.45–12.00, 12.30–14.00, 21.00–24.00, 03.00–04.30. W. 09.45–11.00, 12.30–14.00 (Sat. 14.30), 22.45–24.00 (exc. Wed.), 03.00–04.30 (Mo. & Sat. only). – **Mbg:** Sat. 10.30, 14.30, Tues. 03.00. – **DX'ers Corner:** Tues. 04.15–04.30. Wed. 10.45–11.00. – **Bulletin Board** (prgr. preview, news): Mo. 10.45–11.00, Sun. 02.45–03.00. – **French:** W. 17.00–18.00. – **French & Creole:** Sun. 19.00–21.00, 00.00–01.00, W. 11.00–11.30, 00.00–01.00 (exc. Wed.). – **Russian:** Sun. 02.30–03.00, Mo. & Sat. 02.00–03.00. – **Spanish:** Sun. 12.00–12.30, 18.00–19.00, 01.00–02.00. W. 11.30–12.30, 18.00–19.00, 01.00–02.00 (Mo. & Sat. only). – **Chinese:** 02.15–02.30 (Sat. & Sun.). – **Note:** Although times are GMT, calendar days apply to Haiti (EST) only.

ADV.
The Evangelistic Voice of the West Indies is now owned and operated by the **ORIENTAL MISSIONARY SOCIETY.** This is an internationally known organization with missionary work in the Far East, Europe, Africa and Latin America, and is now utilizing this radio voice to reach **"AROUND THE WORLD WITH THE GOSPEL".**

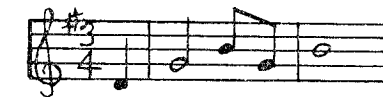
7) 23 ruelle Chavannes, Port-au-Prince. **V.** by letter.

8) B. P. 1143, Port-au-Prince. **Cable:** "Radioco". – **D.PRGR.: English:** Sun. 22.00–22.30 ("Glimpses of Haiti"), 23.30–24.00 ("Paris Star Time"). – **ANN.:** "Ici Radio Commerce". – **V.** by QSL-card.

9) Cap Haitien.

10) Cap Haitien. – **ANN.:** "Ici Radio Citadelle, Poste 4VWA au Cap Haitien, Capitale touristique de la Rép. d'Haiti, Grandes Antilles". – **V.** by QSL-card. – 11) Rue Louverture 158, St. Marc.

12) B. P. 737, Port-au-Prince. – **L.P.:** Dir. Gen.: C. R. Wiedmaier. – **D.PRGR.: English:** Sun. 23.00–24.00, Fri. 02.30–03.00. – **ANN.:** "Vous écoutez R. Haiti, Postes 4VW, 4VHW et 4VRW". – **INT.SIG.:** Gong (4 notes)



V. by QSL-card. – **F.PL.:** FM.

13) Cap Haitien. – **ANN.: F.:** "Ici La Voix du Nord, Poste Commercial de Radiodiffusion 4VCP, affilé à la chaîne de la Paix des Nations Unies...". – **Sp.:** "La Voz del Norte". – **E.:** "The Voice of the North".

Medium Waves:

14) Port-au-Prince. – 15) **R. Carillon,** Port-au-Prince.

16) **Petionville Broadc. System,** Petionville. – 17) **R. Tropic,** Port-au-Prince. 18) **Radiodiff. Haitienne,** Ruelle Jeanty, Port-au-Prince.

19) **R. Port-au-Prince,** Rue Pavee, Port-au-Prince. – **ANN.:** "Ici Port-au-Prince, Poste 4VS". – **V.** by letter.

20) **Magloire Broadc. Circuit,** Port-au-Prince. – **D.PRGR.:** 16.00–03.00.

★ HONDURAS (British) ★

L.T.: GMT ÷ 6 h. – **Pr. L.:** English, Spanish. – **Po.:** 90.000. – **Rcvrs.:** 2201. – **E.C.:** 110/220 V., A.C., 60 c/s.

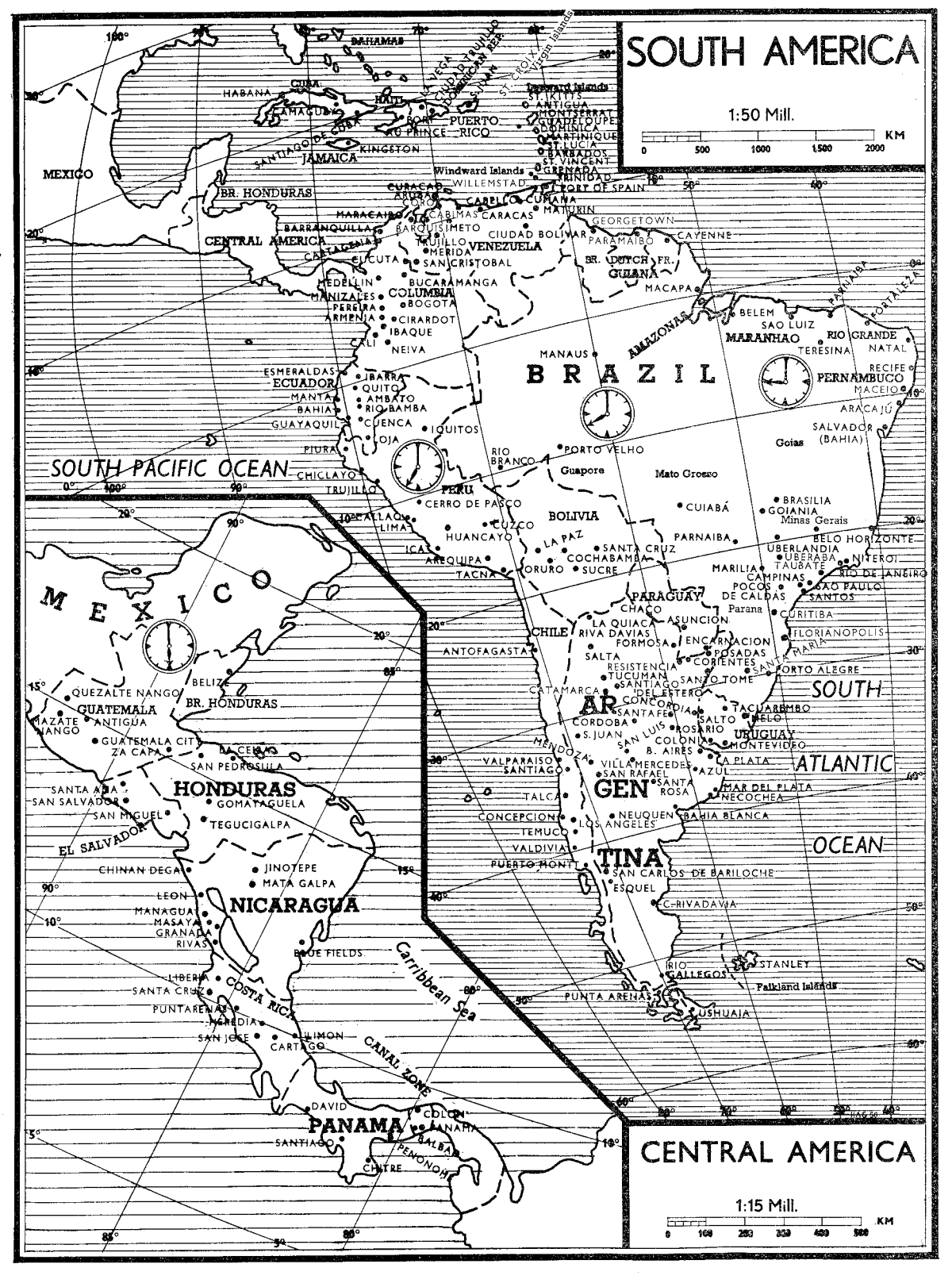
BRITISH HONDURAS BROADCASTING SERVICE (Go.)
FI.: By state and license fees. – **ADDR.:** P.O. Box 315, Belize. **Cable:** Incom. **Te.:** 382.– **L.P.:** Dir.: G. V. de Freitas. Dir. Engineering: A. H. Dickinson. Dir. Prgr.: A. L. Ayuso.

HOME SCE.: 830 kc/s 361 m 5 kW – 3300 kc/s 90.85 m 5 kW: **English:** W. 12.30–14.00, 18.00–18.40, 00.00–04.10. Sun. 12.30–18.40, 00.00–04.20. – **N.:** 13.00, 18.30, 01.00, 02.00. – **Wrp.:** 18.30, 01.00, 04.00. – **Rel.:** D. 12.30, Sun. 17.30, Mo. 03.30, Tues. 03.45. **Spanish:** 18.40–18.50, 23.00–24.00. **N., Wrp.:** 18.40, 23.45.
ANN.: E.: "This is the British Honduras Broadcasting Service". – **Sp.:** "Este es el Servicio Radiodifusor de Honduras Británica". – **INT.-SIG.:** At opening: Nat. Anthem. At Closing: Greensleeves. – **V.** by QSL-card. R.p. – **PUB.:** Prgr. sched. monthly. Free to local listeners. Overseas listeners prepayment of postage 10 c. pr. copy.

★ HONDURAS (Rep.) ★

L.T.: GMT ÷ 6 h; – **Pr. L.:** Spanish. – **Po.:** 2.000.000 – **Rcvrs.:** 50.000. – **E.C.:** 115/220 V, A.C, 60 c/s.

DIRECCION GENERAL DE COMUNICACIONES ELECTRICAS, Edificio Communicaciones Electricas, Tegucigalpa. **Cable:** "Gentel". **L.P.:** Dir. Gen. de Com. Electricas: Ing. F. C. Garcia. **STATIONS:** All st's commercial. **Call:** HR––.


SOUTH AMERICA
1:50 Mill.
KM
0 500 1000 1500 2000
CENTRAL AMERICA
1:15 Mill.
KM
0 100 200 300 400 500
BRAZIL
MEXICO
SOUTH PACIFIC OCEAN
ATLANTIC OCEAN
Caribbean Sea
BAHAMAS
CUBA
HABANA
HAITI
PUERTO RICO
PORT AU PRINCE
JAMAICA
KINGSTON
SANTIAGO DE CUBA
CIUDAD TRUJILLO
DOMINICAN REP.
ST. CROIX
Virgin Islands
Leeward Islands
ST. KITTS
ANTIGUA
MONTSERRAT
GUADELOUPE
DOMINICA
MARTINIQUE
ST. LUCIA
BARBADOS
ST. VINCENT
GRENADA
Windward Islands
TRINIDAD
PORT OF SPAIN
WILLEMSTAD
CURACAO
ARUBA
CORO
CABIMAS
CARACAS
MAIQUETIA
MARACAIBO
BARQUISIMETO
CIUDAD BOLIVAR
VENEZUELA
GEORGETOWN
PARAMAIBO
CAYENNE
BR. DUTCH FR. GUIANA
BR. HONDURAS
CENTRAL AMERICA
BARRANQUILLA
CARTAGENA
TRUJILLO
MERIDA
SAN CRISTOBAL
CUCUTA
MEDELLIN
MANIZALES
PEREIRA
ARMENIA
BUCARAMANGA
COLUMBIA
BOGOTA
CIRARDOT
IBAQUE
CALI
NEIVA
MACAPA
BELEM
SAO LUIZ
MARANHAO
TERESINA
PARNAIBA
FORTALEZA
RIO GRANDE
NATAL
RECIFE
PERNAMBUCO
MACEIO
ARACAJÚ
SALVADOR (BAHIA)
Goias
AMAZONAS
MANAUS
ESMERALDAS
ECUADOR
IBARRA
QUITO
AMBATO
RIO BAMBA
CUENCA
MANTA
BAHIA
GUAYAQUIL
LOJA
QUITOS
PIURA
CHICLAYO
TRUJILLO
RIO BRANCO
PORTO VELHO
Guapore
Mato Grosso
PERU
CERRO DE PASCO
CALLAO
LIMA
HUANCAYO
CUZCO
BOLIVIA
CUIABÁ
BRASILIA
GOIANIA
Minas Gerais
BELO HORIZONTE
NITEROI
RIO DE JANEIRO
SAO PAULO
SANTOS
PARNAIBA
UBERLANDIA
UBERABA
TAUBATE
MARILIA
CAMPINAS
POCOS DE CALDAS
ICA
AREQUIPA
TACNA
LA PAZ
SANTA CRUZ
COCHABAMBA
ORURO
SUCRE
PARAGUAY
CHACO
Parana
CURITIBA
FLORIANOPOLIS
PORTO ALEGRE
SANTA MARIA
LA QUIACA
RIVA DAVIAS
ASUNCION
CHILE
ANTOFAGASTA
FORMOSA
ENCARNACION
POSADAS
CORIENTES
SALTA
RESISTENCIA
TUCUMAN
SANTIAGO DEL ESTERO
SANTO TOME
CATAMARCA
CONCORDIA
SANTA FE
TACUAREMBO
CORDOBA
SALTO
MELO
S. JUAN
SAN LUIS
ROSARIO
URUGUAY
COLONIA
MONTEVIDEO
B. AIRES
MENDOZA
VALPARAISO
SANTIAGO
VILLA MERCEDES
SAN RAFAEL
AZUL
LA PLATA
MAR DEL PLATA
NECOCHEA
TALCA
CONCEPCION
NEUQUEN
BAHIA BLANCA
LOS ANGELES
TEMUCO
VALDIVIA
PUERTO MONT
SAN CARLOS DE BARILOCHE
ESQUEL
C-RIVADAVIA
RIO GALLEGOS
STANLEY
Falkland Islands
PUNTA ARENAS
USHUAIA
MEXICO
QUEZALTE NANGO
BELIZE
BR. HONDURAS
GUATEMALA
MAZATE NANGO
ANTIGUA
GUATEMALA CITY
ZA CAPA
LA CEIBA
SAN PEDRO SULA
HONDURAS
SANTA ANA
SAN SALVADOR
GOMATAGUELA
SAN MIGUEL
TEGUCIGALPA
EL SALVADOR
CHINAN DEGA
JINOTEPE
MATA GALPA
LEON
MANAGUA
MASAYA
GRANADA
RIVAS
NICARAGUA
BLUE FIELDS
LIBERIA
SANTA CRUZ
COSTA RICA
PUNTARENAS
HEREDIA
SAN JOSE
LIMON
CARTAGO
CANAL ZONE
DAVID
COLON
PANAMA
SANTIAGO
ALBA
CHITRE
PENONOME

Call	kc/s	m	kW	m.w.	Name/h. of tr.
1) D4	4755	63.03	0.5		La Voz de las Colinas: 19.00–21.00
2) QN3	4905	61.16	0.5	1150	La Voz del Atlántico 15.00–03.00
3) VS	4940	60.73	1	1540	La Voz de Suyapa: 11.00–03.00
4) QW	4995	60.06	0.5	1420	R. Juventud: 13.00–05.00
5) N	5873	51.05	5	670	La Voz de Honduras: 12.00–05.00
6) WW	5972	50.22	1	1170	La Voz de Centro América: 11.00–06.00[1])
7) P1	5995	50.04	1	1400	El Eco de Honduras: 14.00–05.00
8) QR4	6005	49.96	0.3	1320	La Voz del Pueblo: 13.00–05.00
9) OW2	6020	49.83	1	845	R. Monserrat: 12.00–04.00
10) TL2	6035	49.71	1.5	980	R. Tegucigalpa: 12.00–06.00
11) LP3	6050	49.59	0.5	610	R. América: 13.00–05.00
12) YN4	6060	49.50	0.3	740	La Voz del Merendón: 13.00–04.00
13) MH5	6075	49.38	0.5	1500	La Voz del Junco: 11.30–04.00
14) NQ4	6085	49.30	1	775	R. Morazán: 13.00–04.00
15) XW2	6110	49.10	1	1200	R. Comayagüela: 12.00–04.00
16) Q4	6125	48.98	1	1250	R. Suyapa: 12.00–05.00
17) ME2	6135	48.90	0.25	1350	La Voz del Patio: 13.00–05.00
18) XN4	6145	48.82	0.3	1040	R. Concordia: 12.00–06.00
19) UC	6155	48.74	2	865	R. Centro: 12.00–06.00
20) TW4	6175	48.58	1	715	Unión R. Hondureña: 12.00–05.00
21) MT4	6185	48.50	0.5	640	R. Molino Rojo: 12.00–04.00
22) D2	6195	48.43	0.5		La Voz de Atlántida: 12.00–04.00
23) RH5	9543	31.44	0.5	1370	La Voz de Occidente: 13.00–05.00[2])
24) ZN	9610	31.22	1	890	R. Pinares Honduras: 12.00–06.00

[1]) reported on 5973 kc/s [2]) reported on 5960 kc/s.

Medium Waves: only (no short wave): Call: HR—.

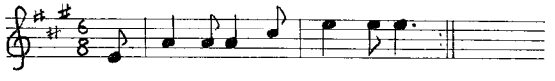
25) XA	1280	234.0	0.3	La Voz de Choluteca: 12.00–06.00
26) LV	1460	205.5	0.5	R. Valladolid: 13.00–04.00

Short Waves:
1) El Paraiso. 2) Barrio La Curva, Puertos Cortés.
3) Iglesia Católica Nacional, Tegucigalpa DC.
4) A. Griffin h., Barrio El Centro, Tela.
5) Av. Lempira, Tegucigalpa DC. N. 03.00. 6) Apt. 120, San Pedro Sula. 7) San Pedro Sula. – 8) Av. de La Paz, Tegucigalpa DC.
9) Tegucigalpa DC. **Cable:** "Monserrat". – **ANN.:** "HROW R. Monserrat, la emisora de los hondureños en Tegucigalpa, Honduras, C. América". – **V.** by QSL-card.
10) E. Chahin, Tegucigalpa DC. – 11) Barrio La Guadalupe, Tegucigalpa DC.
12) Barrio Paz Barahona, San Pedro Sula. – **V.** by letter.
13) Santa Bárbara, S. B. – 14) P.O. Box 393, Tegucigalpa DC.
15) 4a Ca., Comayagüela. – **V.** by QSL-card.
16) Apt. 33, San Pedro Sula. – **V.** by letter.
17) La Ceiba, Atlántida. – 18) Barrio La Concordia, Tegucigalpa DC.
19) Tegucigalpa. – **L.P.:** O.: M. Villeda Toledo.
20) Apt. 734. Tegucigalpa DC. – **ANN.:** "Radio-Televisión Hondureña". – **V.** by letter.
21) S. Pedro Sula. – 22) La Ceiba, Atlántida. – 23) Santa Rosa de Copán.
24) Tegucigalpa DC. **L.P.:** Dir. Gen.: E. Chain A. – **V.** by letter.
Medium Waves: 25) Choluteca. 26) Comayagua.

★ MARTINIQUE (French West Indies) ★

L.T.: GMT ÷ 4 h. – **Pr. L.:** French. – **Po.:** 258.000. – **Rcvrs.:** 11.000. – **E.C.:** 110/220 V., A.C., 50 c/s.

R. MARTINIQUE (R. diff. Télévision-Française)
ADDR.: Radiodiff. Française, Fort de France. – **L.P.:** Dir.: A. Bazire.
HOME SCE.: W. 10.15–11.30, 16.15–17.45, 22.30–01.25 (Sat. 20.30–02.00). Sun. 10.45–14.15, 16.15–17.45, 21.00–02.00 on 1500 kc/s 200 m 8 kW & 5994 kc/s 40.05 m 1 kW.
Also on 3315 kc/s (8 kW) at 10.15–11.30, on 4895 kc/s (8 kW) 16.15–17.45, on 2420 kc/s (8 kW) at 22.30–01.25.
ANN.: "Ici Fort-de-France, Radiodiffusion Française" – **INT.-SIG.:** First eight notes of "Adieu Foulards, Adieu Madras"; piano.



★ NETHERLANDS ANTILLES ★

L.T.: GMT ÷ 4½ h. – **Pr. L.:** Dutch, Papiamento, English, Spanish. – **Po.:** 194.000. – **Rcvrs.:** 41.000. – **E.C.:** 125 V., A.C., 50 c/s.

CURAÇAO

RADIO CUROM (Association: "Curaçaosche Radio Vereeniging")
ADDR.: P.O. Box 31, Willemstad, Curaçao. – **Cable:** Curaver. – **L.P.:** Dir. Gen.: C. G. Grootens. Dir. Tec.: S. Volkerts.
HOME SCE.: PCJ-2 865 kc/s 346.8 m 10 kW.
11.00–03.30. Sun. 13.30–17.30, 21.30–03.30. – **N.:** Dutch: 11.30, 17.00, 22.50, 03.25.
ANN.: E.: "This is Willemstad, Curaçao – Radio-Curom". Dutch: "U luistert naar de Curom te Willemstad, Curaçao". Papiamento: "Aki ta Curom na Willemstad, Corsow". – **INT.-SIG.:** Movements from "Piet Hein-rhapsody" (Dutch trad.). – **V.** by QSL-card. – **PUB.:** Monthly "Curom-Gids"; for members only.

RADIO HOYER (Cultural, Comm.)
FI.: R. Hoyer 1 and 3 by adv. R. Hoyer 2 on cultural basis. – **ADDR.:** Julianaplein 21, Willemstad. **Cable:** Radioyer. **Te.:** 11673. – **L.P.:** Dir. Gen.: H. E. Hoyer. Dir. Adm.: Miss S. M. Priest. Dir. Tec.: E. G. Gilmoore.
HOME SCE.: Dutch, English, Spanish, Papiamento:
PJC7–1 1010 kc/s 297 m 1 kW: 09.30–04.30 Spanish, Papiamento
PJC7–2 1500 – 200 – 1 – : 09.30–04.30 Dutch, English
N.: Spanish: On the ½ h. and 10.45, 11.45, 16.50, 22.00, 01.30.
Papiamento: On the h. and 13.30, 16.30, 22.30, 02.30. **Dutch:** On the h. and 11.15, 13.30, 17.30, 21.45, 23.00. **English:** On the ½ h. and 12.00, 15.30, 17.15, 01.30.
ANN.: E.: The first 3 bars of Curaçao's anthem followed by: "This is station PCJ7 R. Hoyer transmitting on...". – **V.** by QSL-card.

RADIO CARIBE (Comm.)
FI.: By adv. only. – **ADDR.:** Nieuwestraat 22B, Willemstad. **Cable:** R. Caribe. **Te.:** 12801. – **L.P.:** Dir. Gen., Prgr., Tec.: C. R. Heilegger. Dir. Adm.: H. A. Heilegger. Dir. Tec., Foreign Rel.: G. A. T. Heilegger.
HOME SCE.: PJL3 1230 kc/s 243.9 m 0.25 kW. W. 11.00–04.30. Sun. 12.30–04.30: **English:** Sun. 12.30–14.30, W. 17.00–19.00. – **Dutch:** W. 14.30–17.00, 01.00–04.30. Sun. 18.00–04.30. – **English:** and **Dutch:** W. 11.00–13.00. – **Spanish:** Sun. 14.30–18.00. – **Spanish** and **Papiamento:** W. 13.00–14.30, 19.00–01.00.
ANN.: E.: "This is R. Caribe broadcasting on its assigned frequency of 1230 kc/s 243.9 m"; announcements in Dutch, Spanish and Papiamento are similar. – **V.** by letter and QSL-card. – **F.PL.:** 1 kW on 540 kc/s.

ARUBA

RADIO KELKBOOM (Comm.)
FI.: By advertisements. – **ADDR.:** P.O. Box 9, Oranjestad. **Cable:** Kelkboom. **Te.:** 1899. – **L.P.:** Mgr.: C. A. Kelkboom.
HOME SCE.: PJA5 1435 kc/s 209 m 1 kW:
W.: 16.00–18.00, 20.30–02.30. Sun.: 14.30–18.00, 20.30–02.00.
N. in Dutch: D. 16.55–17.10, 00.15–00.30; Thurs., Sun. 01.30–02.30. – **English:** D. 17.25–17.40, Sun. 14.30–14.45. – **Spanish:** Mo.-Fri. 00.45–01.00. Sun. (fortnightly): 15.00–15.30. – **Papiamento:** D. 16.40–16.50, 21.00–21.15, 23.30–23.45. – **Rel.:** Sat. 23.35. – **V.** by QSL-card. R.p.

RADIO VICTORIA (sponsored and owned by the **Evangelical Alliance Mission** – TEAM).
FI.: Partly by comm. ad. – **ADDR.:** Oranjestad. **Cable:** TEAM. **Te.:** 5490. – **L.P.:** Station Mgr.: Rev. P. J. Pietsch.
HOME SCE.: PJA6 920 kc/s 326 m 5 kW:
W. 15.30–03.00. Sun. 11.30–14.00, 17.30–23.30.
English: D. 17.00–19.15, 00.00–03.00. **N.:** 17.00, 00.30, 02.30.
Dutch: W. 23.00–24.00. **N.:** 23.00.
Papiamento (& Spanish): 15.30–17.00, 19.15–23.00. **N.** 16.30–22.30.
ANN.: E.: "This is R. Victoria, The Cultural of the Caribbean". **Sp.:** "Transmite R. Victoria, La Voz Cultural del Caribe". – **V.** by letter. – **PUB.:** Prgr. schedule free on request.

VOICE OF ARUBA (Comm.)
ADDR.: Korteweg No. 4, Oranjestad. – **L.P.:** Mgr., Dir. Adm.: A. Arends. Dir. Tec.: D. Odor.
HOME SCE.: PJA10 655 kc/s 457 m 1 kW: 10.30–02.30: in **Dutch, English, Spanish.** – **ANN.:** "You are tuned to Station PJA10 – The Voice of Aruba". – **INT.-SIG.:** 4 strokes on a 4 metal bar percussion instrument. – **V.** by QSL-card or letter.

BONAIRE

R. HOYER: PJC7–3 1385 kc/s 216 m: Testtransmissions.

★ NICARAGUA ★

L.T.: GMT ÷ 6 h. – **Pr.L.:** Spanish. – **Po.:** 1.331.000. – **Rcvrs.:** 35.000. – **E.C.:** 110/220 V., A.C., 60 c/s.

JEFATURA DEL RADIO NACIONAL, Apt. 209, Managua.
STATIONS: All st's comm. exc. 17) (Go.), 1), 21) (Cultural), 23) (Rel.).
Short Waves: Call: YN---.

Call	kc/s	m	kW	m.w.	Name & h. of tr.
1) RC	5810	51.63	0.25		R. Cultural
2) WW	5965	50.28	0.5	650	R. Sport[2]): 23.00–04.00
3) DG	5995	50.04	1		R. Colonial

	Call	kc/s	m	kW	m.w.	Name & h. of tr.
4)	X	6025	49.79	3.5	750	R. Equis: 12.00–05.00
5)	LU-A	6040	49.67	0.5		R. City: 12.00–06.00
6)	EQ	6065	49.46	0.45		R. Universal: 12.00–04.00
7)	WA	6140	48.96	1	930	R. Mundial[1]): 12.00–05.00
8)	UW	6190	48.47	0.25	1180	R. Darío[2])
9)	JM	6200	48.39	1		R. Norte
10)	WN	7312	41.03	0.15	1450	R. Granada
11)	RM	7602	39.46	0.5	1090	R. Musun[2])
12)	MS	7660	39.16	0.25	1440	R. Philips: 13.00–05.00
13)	CA	7753	38.67	0.15	1520	R. Atlantico: 16.00–20.00, 23.00–04.00
14)	BX	7890	38.02	0.1		R. Oriental: 16.00–03.00

Medium Waves: Call: YN---. °=Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
15)HP	575	1	23)RC	900	10	8)UW	°1180	0.1[2])
16)RD	590	3[2])	7)W	°930	10[1])	31)C	1200	0.5
17)M	620	10	24)LU	965	1	32)CW	1240	0.5[2])
2)XW	°650	1[1]) [2])	25)OP	980	0.25	33)WX	1270	2.5
18)DS	675	2.5	26)HTM	1000	3	34)RA	1300	0.37
19)SC	700	1	7)W3	1025	1[1])	35)XZ	1320	0.2
4)X	°750	3	27)LL	1050	0.25[2])	12)MS	°1440	0.15
7)W2	775	1[1])	1070	1070	0.18	10)WN	°1450	0.15
20)R	800	1	11)RM	°1090	0.25[2])	36)AG	1475	2
21)OL	825	15	29)Q	1100	0.75	13)CA	°1520	0.15
22)MV	850	5	30)BB	1150	0.4[2])	37)AS	1560	0.25
7)W1	875	1[1])						

[1]) R. Mundial Nicaraguan Broadcasting Network
[2]) R. Deportes Nicaraguan Sports Network

Short Waves:
1) Managua. – 2) Granada. – **L.P.:** Dir.: M. Arana V. – 3) León. 4) Managua. – **L.P.:** Dir.: R. Cano. 5) Managua. – 6) Apt. 338, Managua. – 7) 5a Av. N. O. 703, Managua. – **L.P.:** Dir. Gen.: M. Arana V. – Dir. Tec.: F. Arana V. – **FM:** 92 mc/s (1 kW), 100.00 (0.1 kW.)
8) León. – 9) Somoto. – 10) Granada. – 11) Matagalpa. – 12) Apt. 27, León.
13) Bluefields. – **L.P.:** Dir.: R. Tijerino S. – **D.PRGR.:** in Spanish, English. 14) Granada. – **L.P.:** Dir.: J. Mena P.

Medium Waves: D.PRGR.: Approx. 12.00–06.00.
15) **R. Minerva,** Masaya. – 16) **R. Deportes,** Managua. – **L.P.:** Dir.: F. Arana V. – 17) **Radiodifusora Nacional,** Managua.
18) **Union Radio,** J. G. Saenz & Cia., Managua. – **L.P.:** Dir.: R. Arroliga S. – **FM:** 95.0 mc/s 0.06 kW.
19) **R. Centauro,** Managua. – **L.P.:** Dir.: S. Cardenal A. – **FM:** 89.0 mc/s 0.06 kW. 20) **R. Reloj,** Managua. – **L.P.:** Dir.: R. Arana Sandigo.
21) **Ondas de Luz,** Apt. 607, Managua. – **L.P.:** Pres.: F. Dona M. Coordinator: David C. Solt. Dir. Prgr.: S. Houk. – **D.PRGR.:** 12.00–04.00. **English:** 03.00–04.00. – **ANN.:** "YNOL Ondas de Luz, con su lema: Orientando su camino con la luz de la verdad". – **V.** by letter and QSL-card.
22) **R. Continental,** Av. Este 1200, Managua. – **L.P.:** Dir.: M. Valle. Q
23) **R. Catolica,** Managua. 24) **R. Managua,** Managua. – **L.P.:** as 5).
25) **Emisora Cultural Carazo,** Jinotepe. – **L.P.:** Dir.: A. Obregon P.
26) **R. Noticias,** Managua. – 27) **R. Masaya,** Masaya. – **L.P.:** Dir.: L. Correa L. – 28) **R. Centro,** Granada.
29) **La Voz de la Victoria,** Managua. – **L.P.:** as 6).
30) **La Voz de la Segovia,** Esteli. – **L.P.:** Dir.: J. R. Barrantes C.
31) **R. Mongalo,** Rivas. – 32) **R. Occidental,** Chinandega. – 33) **R. Atenas,** León. – 34) **La Voz de Chinandega,** Chinandega. – 35) **R. Cocibolga,** Granada. – 36) **R. Cosiguina,** Chinandega. – 37) **Ondas del Xolotlan,** Managua.

★ PANAMA ★

L.T.: GMT÷5 h. – **P.L.:** Spanish. – **Po.:** 1.009.000. – **Rcvrs.:** 135.000. **E.C.:** 110/220 V., A.C., 60 c/s.

GOVT. DEPT. JURISDICTION: RADIO BROADCASTING IN PANAMA

ADDR.: Direccion de Correos y Telecomunicaciones, Ministerio de Gobierno y Justicia, Panamá. **Cable:** "Dirgentel".
L.P.: Chief Eng. Telecomunicaciones: Ing. R. D. Prescott.
STATIONS: All st. comm. exc. 17) (Rel.) & 18) (Mil.).
Short Waves: C=Circuito. * currently mactive.

	Call	kc/s	m	kW	m.w.	Name	h. of tr.
1)	HOL21	5960	50.34	0.5	670	R. Hogar	11.00–03.00
2)	HOM50	*5995	50.04	1.0	610	C. R. P. C.	
3)	HP5K	*6005	49.96	1.0	1500	La Voz de la Victor	
4)	HP5B	6030	49.75	0.25	730	R. Cadena Miramar	11.00–06.00
5)	HOU31	6045	49.63	1.0	1025	La Voz del Baru	11.00–04.00
6)	HORT	*6060	49.50	0.5	1410	R. Balboa	
7)	HOO	*6090	49.26	0.3	1470	R. Independiente	
8)	HP5H	*6122	49.00	0.5	1015	R. Reloj	
9)	HOQQ	*6140	48.86	0.5	1250	R. Nacional	
10)	HP5G	6175	48.58	0.3	700	R. Panamericana	11.00–04.00
11)	HOLA	9505	31.56	1.0	1390	R. Atlantico	12.00–04.00
12)	HP5J	9607	31.23	0.25	1380	La Voz de Panamá	11.00–13.00, 17.00–19.00, 22.30–03.00
13)	HOJ53	*9645	31.10	0.3	1130	R. Provincias	
2)	HOF31	9685	30.98	1.0d	610	Onda Popular	10.55–05.00

Medium Waves: Call: HO---. °=Short Waves.

Call	kc/s	kW	Call	kc/s	kW
14) N31	550	1.0	19) G2	1090	0.25
2) H2	560	0.5	33) R58	1100	0.5
2) H3	580	1.0	34) M21	1115a)	0.25
2) HM	°610	10.0	2) F4	1120	1.0
15) K	640	0.25	13) J	°1130	0.4
2) H4	660	1.0	35) B49	1140a)	1.0
1) LY	°670	1.0	36) S25	1150	0.25
16) F32	680	0.3	37) NZ	1170	0.25
10)A	°700	1.0	38) OC	1180	0.8
4) X45	715a)	0.5	39) B48	1195a)	1.0
4) HP5C	°730	0.5	40) E91	1210	4.0
4) X44	745a)	0.5	10) W	1230	0.1
17) XO	760	5.5	41) M56	1240	1.0
18) ACA20	790	5.0	42) J22	1265	0.15
2) F33	810	1.0	43) JU	1280	0.25
19) G	830	0.3	24) S23	1295	0.5
20) E35	855	0.1	11) K3	1310	0.3
21) HO	870	1.0	44) L55	1315	1.0
22) R34	890	1.0	45) M92	1330	1.0
23) HA	900	0.25	38) O39	1340	0.2
24) S56	920	0.3	4) X24	1355a)	0.3
25) X	940	0.5	38) O38	1370	0.2
26) B33	950	0.4	12) HP6J	°1380	0.25
2) F	965	3.0	11) L	°1390	0.25
9) Q	°1250	0.25	46) HS	1400	0.5
27) R59	990	1.0	6) RS	°1410	0.5
8) U44	°1015	2.0	18) ACB20	1420	1.0
2) F2	1020	0.25	15) C	1440	0.25
5) U	°1025	1.0	47) D42	1460	0.13
28) U23	1030	0.3	7) OH	°1470	1.0
29) S22	1035	0.3	31) B43	1490	0.25
30) J2	1040	0.4	3) N	°1500	0.25
31) B41	1050	0.12	48) HPU28	1540a)	0.07
12) HPM21	1060	0.5	13) J52	1560	0.1
32) D21	1070	0.25			

a) under construction.

Short Waves:
1) Apt. 1979, Panama. – **L.P.:** Dir. Gen.: Rev. E. M. de Laburu S. J. **ANN.:** "R. Hogar, La Emisora Católica al Servicio de la Paz y la verdad". **V.** by QSL-card. **F. PL.:** 10 kw.
2) Apt. 1795, Panama. – **Cable:** "Erepece". – **L.P.:** Dir. Gen.: F. Eleta A. Dir. Prgr.: A. Torres. Dir. Tec. L. O'Meally. – **D.PRGR.:** 10.55–05.00. – **C. RPC: M.w.:** HOH2 Colon, HOH3 Chitre, HOHM Panama, HOH4 David. – **S.w.:** HOM50 Panama. – **FM:** HOH/HOH49/HOH86 Panama, HOH87 Chitre. – **N.:** 12.45, 15.30, 18.00, 23.30, 03.00. – **Onda Popular: M.w.:** HOF33 Chitre, HOF Panama, HOF2 Colon, HOF4 David. – **S.w.:** HOF31 Panama. – **FM:** HOF87 Chitre, HOH88 Panama. – **N.:** 11.00, 17.00, 00.00. – **V.** by QSL-card.
3) Union Radio S.A., Apt. 33, Colon. – **L.P.:** Dir.: J. Jaén y Jaén.
4) Apt. 1214, Panama. **Te:** 34681. – **L.P.:** Pres.: E. de la Guardia III. Dir.: A. Jimenez. Dir. Tec.: H. Cava. – **D.PRGR.:** 11.00–06.00 on 730/6030 kc/s. – **N.:** 12.00, 18.00, 21.30, 23.00, 24.00, 02.00. – **Nat. Music:** 11.30, 23.30. – **V.** by letter.
5) Apt. 160, David. – **L.P.:** O.: Srs. Samudico, Esquivel, Tribaldos.
6) Apt. 4369, Panama. – 7) Apt. 545, Panama. –
8) Apt. 5124, Panama. – **Cable:** "Radioreloj". – **FI.:** By adv. **AD.:** Gives the time every 3rd min. Followed by an adv. – **L.P.:** Dir.: O. Antonio Mocchi. Mgr.: B. Prados de Mocci. Dir. Tec.: Ing. F. A. Lamparero. Dir. Prgr.: A. D. Carrillo B. – **F.PL.:** M.w. 5 kW.
9) Apt. 552, Panama. – 10) Apt. 1121, Panama.
11) Apt. 444, Colon. – HOK3: **La Onda de la Alegria.** – **L.P.:** O: A. Galindo. V. by QSL-card.
12) HP5J/HP6J: Apt. 867, Panama. HPM21: **La Voz de Ancon,** Av. Central 169, Panama. – **L.P.:** Pres. M. Diaz Doce. Gen. Mgr.: J. G. Diaz Isaacs. Dir. Gen.: J. A. Tristán Pérez. Dir. Tec.: R. D. Rodriguez. – **D.PRGR.: N., Commentry:** W.: 11.30, 17.45, 22.30, 00.00. Sun. 13.00, 23.30. – **Italian:** Sun. 22.00–24.00. – **V.** by letter.
13) Apt. 826, Chitre. HOJ52: Los Santos. – **L.P.:** Mgr.: P. Reyes.

Medium Waves: D.PRGR.: Approx. 11.00–04.00.
14) **R. Aeropuerto,** Apt. 4824, Panama. – **L.P.:** Pres.: J. L. Salas.
15) **Cadena Panameña de Radiodif.,** Apt. 33, Colon. – **L.P.:** as 2).
16) **R. Centenario,** Ca. 10a Entre Av. C y B sur, Puerto Armuelles. – **L.P.:** O:R. D. González.
17) **La Voz del Istmo,** Apt. 3269, Panama (Rel.: owned jointly by Latin American Mission and World Radio Missionary Fellowship). – **L.P.:** St. Mgr.: R. Beukema. Dir. Prgr.: W. Herzog. Dir. Tec.: A.

Larson. – **D.PRGR.**: 11.00 (Sun. 11.30)–04.00 in **Spanish** exc.: **English**: W. 11.00–14.30, 01.00–04.00. Sun. 11.30–17.00, 00.45–04.00. – **V.** by letter.
18) **Caribbean Forces Network**, (AFRTS), Fort Clayton, Canal Zone. ACA20 Panama, ACB20 Colon.
19) **Estacion de la Comunidad**, Apt. 1121, Panama. HOG2: Ca. 10a No. 9080, Colon. – **L.P.**: as 10).
20) **La Voz del Tropico**, Colon. – 21) **R. Musical**, Apt. 355, Panama.
22) **Ondas del Pacifico**, Apt. 401, David. – 23) Apt. 1045, Panama.
24) **R. Peninsula**, Chitre. – HOS23: **R. Guadalupe**, Apt. 5117, Panama. – **L.P.**: O:R. Pereira P.
25) Ric. Chiari, Panama. – 26) **R. Cultura**, Apt. 249, Concepción.
27) **R. Leblanc**, Ca. 16 Oeste 13a–20, Panama. – **L.P.**: O.G. Leblanc.
28) **R. Zarati**, Av. Juan D. Arosemena, Penonome. – **L.P.**: O:A. de Rodriguez. – 29) **R. Mia**, Apt. 5117, Panama. – **L.P.**: as 24).
30) **Ondas del Canajagua**, Las Tablas. – **L.P.**: O:F. Jolly.
31) **La Voz de Bocas del Toro**, Bocas del Toro. – **L.P.**: O:E. Thomas.
32) **Ondas del Caribe**, Av. Melendez y Roosevelt 8044, Colon. – **L.P.**: O:J. M. Carrasquilla.
33) **R. Rumbos**, Apt. 4421, Panama. – **L.P.**: O:J. Rodriquez Auerbach.
34) Panama City (under construction). – **L.P.**: O:J. L. Torres.
35) Via España y Ca. 45 Este, Panama (under construction). – **L.P.**: O.: A. Boyd. – 36) **R. Mia de Colon.**
37) **Ondas Istmeñas**, Apt. 3237, Panama. – **L.P.**: as 22).
38) **C. de Ondas Chiricanas**, Apt. 172, David. HOO38: La Concepción. HOO39: Boquete. – **L.P.**: O:E. del C. Calvo.
39) Aguadulce (under construction). – **L.P.**: O:J. E. Carrasco
40) **R. El Mundo**, Apt. 1566, Panama. – **L.P.**: O;M. P. de Valdés.
41) **R. David**, Apt. 328, David. – **L.P.**: O:F. Moncada Luna.
42) **La Voz de America**, Apt. 5117, Panama. – **L.P.**: as 24).
43) **La Voz del Vigia**, Av. Rodolfo Chiari, Aguadulce. – **L.P.**: O: J. Pérez. Jr.
44) **R. Reforma**, Av. Herrera, Final, Chitre. – **L.P.**: O:P. Solis Villalaz. – **D.PRGR.**: 10.57–03.30. – **V.** by QSL-card.
45) **R. Noticias**, Jardin San Francisco, Panama. – **L.P.**: O:V. F. Goytia. 46) **Ondas Centrales**, Santiago. – **L.P.**: O:H. Santacoloma.
47) **La Voz de Almirante**, Ca. 6a y Av. N., Almirante. – **L.P.**: O:N. Dosman y Alexander Bodkin.
48) **Emisora de la Universidad**, Panama (under construction).

★ SWAN ISLANDS ★

L.T.: GMT÷6 h.
RADIO SWAN (Comm.)
ADDR.: G.P.O. Box 1247, New York, N.Y. USA. – **L.P.**: Comm. Mgr.: H. H. Heath.
D.PRGR'S in Spanish and English:
1160 kc/s 259 m 50 kW: 10.00–12.00, 23.30–04.00
6000 – 5000 – 7.5 – : 13.00–15.00, 23.30–04.00.
Spanish: 10.00–12.00 on 1160 kc/s; 13.00–15.00, on 6000 kc/s; 00.00–04.00 on 1160/6000 kc/s; **English** 23.30–24.00 on 1160/6000 kc/s.
V. by letter.

THE WEST INDIES

★ BARBADOS ★

L.T.: GMT÷4 h. – **Pr.L.**: English. – **Po.**: 220.000. – **Number of Loudspeakers**: 20.000. – **E.C.**: 110/220 V., A.C., 50 c/s.
BARBADOS REDIFFUSION SERVICE LTD. (Public Co.)
F.I.: By adv. – **ADDR.**: River Road, Bridgetown. **Cable**: Rediffusion. **Te.**: 5126. – **L.P.**: Gen.Mgr.: Col. R. W. R. Oliver. – **D.PRGR.**: 10.00–03.00. Wired Broadcasting. – **N.** (BBC): 11.00, 12.00, 20.00, 23.00.

★ JAMAICA ★

L.T.: GMT÷5 h. – **Pr.L.**: English. – **Po.**: 1.650.000. – **Rcvrs.**: 150.000. **E.C.**: 110/220 V., A.C., 40 c/s.
R. JAMAICA LTD. (Comm.)
F.I.: By adv. – **AD.**: Allowed, up to 12 mins. in 1 h. – **ADDR.**: 32 Lyndhurst Road, Cross Roads, Kingston 5. **Cable**: Broadco. **Te.**: 68151. – **L.P.**: Man.Dir.: W. MacLurg. Sales Mgr.: A. L. Hendriks, Dir. Tec.: R. Goodsman.
HOME SERVICE in English: 09.55–05.00.
Mandeville 770 kc/s 5 kW Point Galina 580 kc/s 5 kWd
Kingston 720 – 5 – Montego Bay 550 – 5 –
N., Wrp.: W.: 10.00 and every half h. until 05.00 (exc. 02.30). Sun.: 13.00 and every h. on the h. exc. 16.00, 21.00, 01.00, 03.00.
ANN.: "This is R. Jamaica and Rediffusion". – **V.** by QSL-card.

★ LEEWARD ISLANDS ★

L.T.: GMT÷4 h. – **Pr. L.**: English. – **E.C.**: 220 V., D.C.

ANTIGUA

ANTIGUA BROADCASTING SERVICE (Go.)
ADDR.: c/o Administration Bldg., Antigua, W. Indies. – **L.P.**: Executive Officer: E. A. M. John. Asst. Prgr. Organizer: Y. Maginley. Tec.: G. A. Thibou.
HOME SCE.: 644 kc/s 465 km 0.5 kW: 4 h. per day.
ANN.: "This is the Antigua Broadcasting Service". – **V.** by letter.

MONSERRAT

RADIO MONSERRAT (Go., Comm.)
ADDR.: P.O. Box 201, Plymouth, Monserrat. **Cable**: Radmon.
HOME SCE.: 1550 kc/s 193.5 m 0.25 kW.
W.: 00.00–02.00, Sat. also 15.00–16.00, Sun. 20.00–22.00.
ANN.: "This is R. Monserrat. The Friendly Station of the Leeward Islands, broadcasting on a frequency of 1550 kc/s in the medium wave band". – **V.** by letter.

★ TRINIDAD ★

L.T.: GMT÷4 h. – **Pr. L.**: English. – **Po:**. 750.000 – **Rcvrs.**: 60.000 – **E. C.**: 220 V., A.C., 60 c/s.
TRINIDAD BROADCASTING COMPANY LTD. (Comm.)
ADDR.: R. Trinidad, Broadcasting House, 11B Maraval Rd., Port-of-Spain. **Cable**: Broadcast. **Te.**: 21151 – **L.P.**: Mgr.: J. M. Laing. Chief Engineer: M. F. Comer.
HOME SCE.: "R. Trinidad", VP4RD: D. 10.00–03.00 – *)=Wrp. 730 kc/s 410 m 20 kW – FM: 95.1 mc/s 1 kW
N.: 10.45*), 11.00 (BBC), 12.00*), 13.00 (BBC), 15.00, 16.00 (BBC), 1630*), 18.00, 20.00 (BBC), 23.45*), 02.00 (BBC). **Rel.**: D. 10.00.
ANN.: "This is R. Trinidad, the Voice of the West Indies" – **V.** by QSL-card. **R.p. PUB.**: Prgr. schedule free on request.
RADIO GUARDIAN (Comm.)
FI.: By advertisements. **AD.**: 10 min. per hour.
ADDR.: 17 Abercromby St. Port-of-Spain. **Cable**: Voice. **Te.**: 32618 – **L.P.**: Mgr.: E. L. Heywood. Dir. Tec.: F. Thompson.
HOME SCE.: D. 10.00–03.00 610 kc/s 491.8 m 10 kW.
N.: On the h. – **Wrp.**: On the ½ h. – **Rel.**: W. 10.00–10.10, Sun. 12.00–13.00.
ANN.: "This is Radio Guardian, The Voice of Trinidad. Key Station of the Federation"; and on the hour: "This is Station 610 etc." – **V.** by QSL-card.

★ WINDWARD ISLANDS ★

L.T.: GMT÷4h. – **Pr.L.**: English – **Po.**: 320.000 – **Rcvrs.**: 20.000 – **E.C.**: 230 V., A.C., 50 c/s.
WINDWARD ISLANDS BROADCASTING SERVICE (Go.)
ADDR.: St. George's, Grenada, W. I. **Cable**: Broadcasts. **Te.**: 4251 – **L.P.**: Mgr. Dir.: A. C. G. Palmer, M. B. E. Dir. Tec.: R. A. Smith,
HOME SCE.: a) Grenada. b) Dominica. c) St. Vincent. d) St. Lucia.

Name		kc/s	m	kw		
St. George's	a)	1040	288.9	0.25	10.00–13.00,	21.00–02.30
Roseau	b)	1530	196.0	0.025	10.00–13.00,	21.00–02.30
Kingstown	c)	1570	191.0	0.025	10.00–13.00,	21.00–02.30
Castries	d)	1580	190.0	0.025	10.00–13.00,	21.00–02.30
St. George's	a)	3365*	89.15	5	22.30–02.30	
–	a)	5010*	59.88	5	10.00–13.00,	21.00–22.30
–	a)	9550*	31.41	5	13.00–20.00 (spec. broadc.)	
–	a)	11920	25.17	0.25	as 1040 kc/s (Nov./Frb.)	
–	a)	15370**	19.52	0.25	as 1040 kc/s (March/Oct.)	

*) to Eastern Caribbean. **) to Jamaica.
N.: **D.**: **BBC.**: 23.00, 02.00. **Local**: Mo.–Fri. 23.45. **Reg.**: W. 23.10 – **Folklore Music**: Tues., Wed. 01.30 – **Rel.**: Sun. 21.00, 01.00.
OVERSEAS SERVICE (to British Isles)
Special broadc. on 15400 kc. 19.48 m 5 kW: 20.00–20.30 (from March on 15400 or 21680 kc/s).
ANN.: "This is the Windward Islands Broadcasting Service" –
INT.-SIG.: A typical calypso phrase played on the "ping-pong", an indigenous instrument made from the top of a steel drum.

V. by QSL-card – **F.PL.**: Mw.-satellites – **PUB.**: Prgr. sched. weekly.

★ ARGENTINA ★

L.T.: GMT ÷ 3 h. – Pr.L.: Spanish - Po.: 20.959.000 - Rcvrs.: 5.000.000
E. C.: 220 V., A. C., 50 c/s.
SECRETARIA COMUNICACIONES.
ADDR.: Buenos Aires – Cable: "Gentel-Baires" – Te.: 315031 – L.P.: Secr. of Comunicaciones Dr. M. F. Mugica. Vice-Secr. C. B. Pertierra. Dir. Gen. S. S. Guillani.

R. NACIONAL (Go.)

ADDR.: Ayacucho 1556, Buenos Aires – L.P.: Dir. Gen. D. L. A. Quesada.
HOME SERVICE: 11.00–04.00.
Short Waves:

Call	kc/s	m	kW	m.w.	H. of tr.
LRA31	6060	48.50	16	870	11.00–03.00
LRA34	6180	48.54	10	970	13.00–03.00
LRA33	9690	30.96	100	870	Sat./Sun. 21.30–04.00
LRA33	15345	19.55	100	870	11.00–18.30 (Sat./Sun. 21.00)

Medium Waves: ° = Short Waves.

Name	Call	kc/s	kW	H. of tr.
Santa Rosa	LRA3	670	20	13.00–03.00
Salta	LRA4	690	10	13.00–03.00
Cordoba	LRA7	750	50	13.00–03.00
Rosario	LRA5	780	20	11.00–03.00
Formosa	LRA8	780	5	12.00–17.00, 20.00–03.00
B. Aires	LRA	°870	100	11.00–04.00
Mendoza	LRA6	°970	5	12.00–03.00

D.PRGR.: N.: 12.00, 16.00, 00.00, 02.30 – V. by QSL-card.

INTERNATIONAL SERVICE
ADDR.: Radiodifusion Argentina Al Exterior (R. A. E.), Sarmiento 151, Buenos Aires.

STATIONS:
LRA32 9690 kc/s 30.96 m 100 kW d. – LRA35 11730 kc/s 25.58 m 100 kW d. – LRA33 15345 kc/s 19.55 m 100 kW.
To Europe: Mo.– Fri.: 19.00–01.00 on 11730 kc/s (each language one h.)
Spanish 19.00 – German 20.00 – Italian 21.00 – French 22.00 – English 23.00 – Portuguese 24.00.
To U.S.A.: Tues.–Sat.: 02.00–04.00 (Ea.), 04.02–06.02 (We.) on 9690 kc/s.
Spanish 02.00 – English 03.00 – Spanish 04.00 – English 05.00. One h. each.
Programmes: N., Argentine Music, Folk Music, Mbg. every Thurs.
ANN.: Sp.: "Aqui Argentina". G.: "Hier spricht Argentinien". I.: "Qui Argentina". F.: "Ici l'Argentina". E.: "This is Argentina Calling" P.: "Aqui Argentina" – V. by QSL-card.

OFFICIAL STATIONS:
LS1 710 kc/s 20 kW R. Municipal, Teatro Colon, B. Aires
LS11 1270 kc/s 30 kW R. Provincia de B. Aires: see below
ADDR.: Ca. 10 y Av. 53, La Plata, B. Aires – L.P.: Dir. D. A. Ovidio B. Gen. Secr. D. F. Fernández. Dir. Tec. D. M. Angel C. –
D. PRGR.: 12.00–03.00.

CULTURAL STATIONS:
LR11 1390 kc/s 1.5 kW R. Universidad de la Plata*)
LT10 1430 – 0.5 – R. Universidad del Litoral**)
*) Plaza Rocha 133, La Plata. **) 9 de Julio y Pellegrini, Santa Fe.

PRIVATE and COMMERCIAL STATIONS:

ASOCIACION DE RADIODIFUSORAS PRIVADAS ARGENTINAS (A.R.P.A.)
ADDR.: Cordoba 1114, B. Aires – Cable: "ARPA-Baires" – Te.: 424964. – L.P.: Mgr. R. Garcia.

Short Waves:

Call	kc/s	m	kW	m.w.	Name & h. of tr.
1) LRS2	5985	50.13	10	830	R. Splendid: 09.59–01.35
2) LRY1	6090	49.26	40	950	R. Belgrano: 10.50–01.30
3) LRX1	6120	49.02	10	1070	R. El Mundo: 11.00–12.00, 14.15–04.00
3) LRX	9660	31.06	5	1070	R. E Mundo: 10.00–04.00
1) LRS1	9740	30.79	15	830	R. Splendid: 09.59–01.35
2) LRY	9760	30.74	30	950	R. Belgrano: 09.00–20.30
1) LRS	11880	25.25	50	830	R. Splendid: 09.59–04.30
3) LRU	15290	19.62	10	1070	R. El Mundo: 10.00–14.00

Medium Waves: ° = Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
4) LV1	[8]560	10/15	21) LV7	890	2	37) LT3	1160	5
5) LV12	[1]580	10	22) LU2	*900	5	38) LV11	[1]1170	2
6) LS4	*590	10	23) LV3	910	12	39) LR9	1190	4
7) LU8	590	1	2) LR3	°950	50	40) LW3	1190	4
8) LS5	*620	3	24) LV2	[1]960	10/15	41) LT6	1200	1
9) LT15	*630	5	25) LW8	970	1	42) LU10	*1200	3
10) LV8	630	5	26) LR5	990	25	43) LV10	*1210	2.5
11) LV15	640	1	27) LT4	*1010	1	44) LU6	1230	1
12) LU4	640	1	28) LV16	*1010	1	45) LU3	*1240	10
13) LU12	*680	1	29) LT2	1020	15	46) LV13	1250	3
14) LV6	*680	10	30) LS10	1030	10	47) LT9	*1260	5
15) LV4	690	0.5	3) LR1	°1070	50	48) LT11	1300	1.5
16) LW7	730	1	31) LT5	1080	1.5	49) LU13	*1300	1
17) LU9	*780	1	32) LV5	1090	15	50) LT14	[1]1320	5
18) LR6	790	25	33) LR2	1110	15	51) LV14	[1]1330	1
19) LW1	820	15	34) LU5	1130	1	52) LT7	*1340	1
1) LR4	°830	50	35) LV9	*1130	5	53) LS6	1350	3
20) LT8	[1]840	5	36) LU7	1150	15	54) LT12	[1]1360	1.5
*) belongs to ARPA.						55) LT16	1370	1

[1])belongs to R. Belgrano Network. [2]) also private. Other st's belong to the government or the universities.

Short Waves:
1) Uruguay 1237, B. Aires. Te.: 42-9601. – L.P.: Dir. Gen.: F. Ferretti. Asesor Artistics: F. Köenig. Dir. Tec.: E. G. Graziani. Chief Eng.: A. Lerena Gabarret. – D.PRGR.: 09.30–04.30 on 830 kc/s. The Reg. Stations rel. the Central Station (LR4) as follows: 09.59, 10.59, 12.57, 14.52, 15.19, 19.59, 20.53, 21.58. 22.53.
N.: 10.00–10.30 and every h. from 11.00. – ANN.: "LR4 Radio Splendid, Buenos Aires, con sus ondas cortas, LRS, LRS1 y LRS2 de la Red Argentina de Emisoras Splendid". – INT.-SIG.: 4 notes on electronic gong (do-mi-so -do). – V. by letter.
2) Office: Cerrito 941, B. Aires. Studio: Ayacucho 2075, B. Aires. Te.: 429661. – L.P.: Dir.: Dr. José O. von Oertel. Com Dir.: N. Panizza. Artistica Supervisor: L. Serta. Chief Eng.: M. Koelble. – D.PRGR.: 09.00 – 04.15 on 950 kc/s. N.: 09.00, 11.00, 15.00, 16.00, 20.00, 22.00, 01.00, 03.00, 04.00.–Radio Belgrano Network consists of: LV2, LV11 LV12, LV14, LT8, LT12, LT14. – ANN.: "Transmite L.R.3 Radio Belgrano de Buenos Aires con sus ondas cortas LRY, LRY1 y su circuito de Emisoras". – INT.-SIG.: 4 notes on vibraphone. – V. by QSL-card.
3) Maipu 555, B. Aires. – L.P.: Dir. Gen.: Dr. B. Razetti. –
FOREIGN SERVICE: English, Spanish, Portuguese: D. 03.00–04. on 6120 kc/s, 11.00–12.00 on 15290/9660 kc/s. – ANN.: "LR1 R. El Mundo de Buenos Aires y su Red Azul y Blanca de Emisoras Argentina". – INT.-SIG.: Gong. – V. by QSL-card.
Medium Waves: 10.00–04.00 (approx.) exc. where indicated.
4) R. Colon, Mendoza 369, San Juan. – L.P.: Dir. Gen.: S. Grafigna.
5) R. Independencia, Rivadavia 118/20, Tucuman. – L.P.: Dir.: A. L. Bruzzi. – D. PRGR.: 10.00–03.00.
6) R. Porteña, Rivadavia 827, Buenos Aires. Te.: 305031. – L.P.: Dir.: T. Bidegain. – D.PRGR.: 10.30–03.30
7) R. Bariloche, Ruta Complement 237 (Kil. 1723/1724), Ci. de Bariloche. – L.P.: Dir. C. Lamuniere.
8) R. Rivadavia, Arenales 2467, B. Aires. Te.: 802391. – L.P.: Dir. Adm.: M. D. Morano. Mgr.: J. Monk. – D.PRGR.: 10.00–09.00.
9) R. Concordia, La Rioja 622, Concordia. Te.: 1700.
10) R. Libertador, Entre Rios 73, Mendoza. – L.P.: Dir.: E. Navesi.
11) R. Mercedes, Balcarce 470, Villa Mercedes.
12) R. Comodoro Rivadavia, M. Noreno 765, Ci. Rivadavia. – L.P.: Dir.: J. A. Lorenzo.
13) R. Rio Gallegos, Av. San Martin 461, Rio Gallegos. Te.: 23. – L.P.: Dir.: A. Legovia – D.PRGR.: 12.00–03.00.
14) R. Nihuil, Rioja 1239, Mendoza. Te.: 32148.
15) R. San Rafael, Irigoyen y Francia, San Rafael. - L.P.: Dir.: S. Illa.
16) R. Catamarca, Rivadavia 751, Catamarca. – L.P.: Dir.: F. Caprio.
17) R. Mar del Plata, Moreno 2473, Mar de Plata. Te.: 20106. – L.P.: Dir.: H. Rosso. – D.PRGR.: 10.00–05.00.
18) R. Mitre, Arenales 1925, B. Aires. – L.P.: Dir.: R. Garmendia. – D.PRGR.: 08.00–04.00.
19) R. Universidad de Córdoba, Rivera Indarte 170, Córdoba. – L.P.: Dir.: F. J. Garzón Maceda. Dir. Tec.: H. Blesio. – D.PRGR.: 09.30–05.00.
20) R. Rosario, Córdoba 1825, Rosario. – L.P.: Dir.: J. A. Peiretti.
21) R. Tucumán, Mendoza 273, S. Miguel de Tucumán.
22) R. Bahia Blanca, Donado 25, Bahia Blanca. – Te.: 20073.
23) R. Córdoba, San Martin 74, Córdoba. – L.P.: Dir.: J. Joaquin L.
24) La Voz de la Libertad, Maipú 166, Córdoba. – L.P.: Dir.: E. A. Demaria.
25) R. Jujuy, R. de Velazco 253, Jujuy. – L.P.: Dir.: O. M. Nazardin. – D.PRGR.: 11.00–03.00. – V. by letter.
26) R. Excelsior, Rivadavia 829, B. Aires. – L.P.: Dir.: C. Mileo. – D.PRGR.: 10.57–05.00.
27) R. Misiones, Bolivar 322/28, Posadas. – Te.: 929.
28) R. Ranquel, Colón 78, Rio Cuarto. – Te.: 1291.

29) **R. Splendid Rosario,** Santa Fé 1388, Rosario.
30) **R. Libertad,** Florida 165, B. Aires. – **Te.:** 300745
31) **R. Chaco,** Av. 9 de Julio s/n, Resistencia. – **L.P.:** Dir.: J. Bautista S.
32) **R. Los Andes,** Mendoza 656, San Juan. – **L.P.:** Dir.: J. Argentino C.
33) **R. Argentina,** Santa Fé 2043,'B. Aires. – **L.P.:** Dir.: J. Gallino R. – **D.PRGR.:** 10.30–07.30.
34) **R. Neuquén,** J. B. Alberdi 189, Neuquén. – **L.P.:** Dir.: A. Vanoli.
35) **R. Güemes,** Deán Funes 28, Salta. – **Te.:** 5051. – **L.P.:** Dir.: M. P. Tato. – **D.PRGR.:** 10.00–03.00.
36) **R. General San Martin,** Alsina 247, Bahia Blanca.
37) **R. Cerealista,** Balcarce 840, Rosario. – **L.P.:** Dir.: A. M. Ciámpoli.
38) **R. Del Norte,** Libertad 251, Ci. Sgo. del Estero.
39) **R. Antartida,** Arenales 1925, B. Aires. – **L.P.:** Dir.: R. Garmendia. **D.PRGR.:** 11.00–04.00.
40) **R. Splendid,** Mendoza 225, Tucumán. – **L.P.:** Dir.: H. Baggini.
41) **R. Berón de Astrada,** Mariano I, Llosa 231, Goya. – **L.P.:** Dir.: M. Gaudioso.
42) **R. Azul,** Av. Bartolomé Mitre 819, Azul. **Te.:** 1102. – **L.P.:** Dir.: J. Borrero R. – **D.PRGR.:** 10.00–03.00.
43) **R. de Cuyo,** Av. Gral. Sn. Martin, Mendoza. – **Te.:** 32135. – **L.P.:** Dir.: M. Fernández Reca. – **D.PRGR.:** 10.00–05.00.
44) **R. Atlantica,** Córdoba y San Martin (Pisos 14 y 15), Mar del Plata. – **L.P.:** Dir.: E. A. Boemo.
45) **R. del Sur,** Lamadrid 116, Bahia Blanca. **Te.:** 20381. – Dir.: A. Fernández Paesa, H. Long. Dir. Tec.: E. Stabach. – V. by QSL-card.
46) **R. San Luis,** Rivadavia 563, San Luis. – **L.P.:** Dir. Gen.: G. Nadal. Dir. Tec.: A. J. Izurieta. – **D.PRGR.:** 11.00–03.00.
47) **R. Santa Fé,** San Martin 2685, Santa Fé. **Te.:** 30193. – **L.P.:** Dir. Gen.: R. Sabio. – **D.PRGR.:** 13.00–04.00.
48) **R. Concepción del Uruguay,** O. Leguizamón 269, Concepción de Uruguay. – **L.P.:** Dir.: J. Kirach.
49) **R. Necochea,** Calle 62 No. 3222, Necochea. **Te.:** 1630. – **L.P.:** Dir.: Dr. T. Rico.
50) **R. General Urquiza,** Rivadavia 64, Paraná. – **L.P.:** Dir.: E. E. Rios.
51) **R. La Rioja,** Soldado Perazzone 69, La Rioja. – **L.P.:** Dir.: R. Rodriquez Lobo.
52) **R. Provincia de Corrientes,** Av. Ayacucho 2482, Corrientes. **Te.:** 4770. – **L.P.:** Dir.: J. F. Gómez.
53) **R. del Pueblo,** Santa Fé 2043, B. Aires. – **L.P.:** Dir.: A. Maida.
54) **R. General Madriaga,** Av. Ldor. Gral S. Martin, P. de los Libres. – **L.P.:** J. J. Varela.
55) **R. Splendid,** J. J. de Urquiza 585, Pcia. R. S. Peña. – **L.P.:** Dir.: E. Diaz.

★ BOLIVIA ★

L.T.: GMT÷4 h. – **Pr.L.:** Spanish. – **Po.:** 3.700.000. – **Rcvrs.:** 250.000. – **E.C.:** 110/220 V., A.C., 60 c/s.

DIRECCION GENERAL DE RADIOCOMUNICACIONES

Dept. Radiodifusion.
ADDR.: La Paz. – **L.P.:** Dir. Gen.: M. Q. Daza Valda.
STATIONS: All st's com. exc. 3) (Go.), 8), 18), 26) (Cultural), 14) (Rel.), 15), 16), 22) (Educational). *) inactive.
Short Waves:

	Call	kc/s	m	kW	m.w.	Name & h. of tr.
1)	CP39	4855	61.79	0.25		R. Cobija: 23.00–02.00
2)		5860	51.20			R. Nacional Bolivia
3)	CP5	*5975	50.21	10	1020	R. Illimani
4)	CP18	6070	49.42	0.25		R. El Condor: 11.00–18.00, 22.00–04.00
5)	CP15	6125	48.98	0.35	900	R. El Condor: 11.00–04.00
6)		6135	48.90	0.5		R. Grigota: 12.00–24.00
7)	CP30	6135	48.90	0.15	1390	R. Libertad: 11.00–13.00, 15.00–19.00, 21.00–04.00 [1]
8)	CP12	6150	48.78	0.25	1420	R. Loyola: see below
9)	CP40	6160	48.70	1	680	Emis. L. A. B.: 10.00–24.00
10)	CP9	6185	48.50	0.45	930	R. Amauta: 11.00–13.00, 23.00 – 04.00[2]
11)	CP23	6195	48.43	0.5		R. Guadalquivir: 12.00–02.00
3)	CP6	9500	31.58	0.1	1020	R. Illimani: 11.00–04.00 [3]
12)	CP22	9605	31.23	1		R. Universidad: see below
13)	CP21	9715	30.88	0.5		R. La Plata: see below
14)	CP39	11765	25.50	10	730	La Cruz del Sur: see below

[1]) reported on 6230 kc/s. [2]) reported on 6270 kc/s. [3]) reported on 9555 kc/s.

Medium Waves: Call: CP---. °=Short Waves.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
3)	2	°550	5	20)	52	730	0.07	25)	45	1090	0.03
15)	63	620	1	21)	35	810	0.25	26)	69	1090	0.25
16)	68	620	1	5)	20	°900	0.25	27)	61	1090	0.1
17)	56	620	0.15	10)	11	°930	0.15	28)	19	1145	0.3
18)	55	680	0.25	22)	66	930*	0.25	29)	14	1250	0.25
19)	34	680	0.25	23)	25	930	0.25	30)	57	1250	0.15
9)		°680	0.1	24)	64	930	0.25	31)	71	1250	0.15
14)	27	°730	10	3)	4	°1020	25	32)	65	1250	0.25
33)	29	1350	0.3	36)	3	1390	0.1	8)	51	°1420	0.2
34)	53	1350	0.07	37)	16	1390	0.1	40)	36	1420	0.08
35)	28	1350	0.25	38)	62	1390	0.1	41)	8	1470	0.25
7)		°1390	0.1	39)	62	1420	0.25	42)	67	1550	0.5
*) under construction								43)	72	1550	0.25

Short Waves:
1) Centro de Acción Pandina, Cobija (Dept. Pando). – 2) La Paz.
3) Emisora del Estado, Av. E. Camacho Edificio Krsul, La Paz. – V. by QSL-card. – 4) La Plata 1139, Oruro. – 5) Av. E. Camacho 41, La Paz.
6) Prefectura del Departamento, S. Cruz. – **D.PR.G:** 12.00–24.00.
7) Casilla de Correo 262, Santa Cruz de la Sierra. – **D.PRGR.:** M.w.: 11.00–04.00. – V. by QSL-card, letter, postcard & schedule.
8) Casilla 155, Sucre. **Cable:** "Radioloyola". **Te.:** 1277. – **L.P.:** Dir. Gen.: R. Aguiló. Dir. Prgr.: R. Torres. Dir. Tec.: J. Lora. – **D.PRGR.:** 11.00–13.00, 16.00–18.00, 22.00–02.00. – **N.:** 12.15, 16.45, 00.00, 01.45. – **Folklore music:** D. 12.00. – **Wrp.:** 12.30. – **ANN.:** "Radio Loyola, La Voluntad Católica de Bolivia". – V. by letter. –
9) Lloyd Aereo Boliviano, Hotel Bolivar, Cochabamba.
10) Comercio 386, Pa Paz. – **D.PRGR.:** CP11: 10.30–14.00, 20.00–04.00.
11) Prefectura del Departamento, Tarija.
12) Rectorado Universidad "Tomas Frias", Potosi. – **D.PRGR.:** 12.30–14.00, 15.00–17.30, 20.00–02.00.
13) 25 de Mayo 41, Sucre. – **L.P.:** Dir.: G. Donoso D. – **D.PRGR.:** 12.30–14.00, 15.00–22.30.
14) Cajón 8, La Paz. **Te.:** 5578. – **L.P.:** Dir. Gen.: H. Hill. Dir. Prg.r: M. Beard. Dir. Tec.: J. Mikaelsen, H. Hill. – **D.PRGR.:** 11.00–03.00. – **N.:** 12.00, 14.30, 17.00, 00.00. – **English:** W. exc. Thurs. 02.00–02.05, Thurs. 02.05–02.20. – **"English by Radio":** Mo., Wed., Fri.: 00.45. – **German:** W. 11.25. – **"German by Radio":** Thurs., Sat. 00.45. – **ANN.:** E.: "This is CP27 and CP39, the Southern Cross Radio Station...". – **Sp.:** "Estas son CP27 y CP39, Radio La Cruz del Sur". – **INT.-SIG.:** Opens and closes with "Onward Christian Soldiers". – V. by QSL-card. – **PUB.:** Prgr.schedule free on request. – **FM:** 103.0 mc/s 0.05 kW.

Medium Waves:
15) **R. San Gabriel,** Casilla 1071, La Paz. – **L.P.:** Dir. Gen.: B. Ryan. Dir. Tec.: D. Pruss. – **D.PRGR.:** 11.00–12.30, 15.00–17.00, 20.30–01.00. – V. by letter or QSL-card.
16) **R. San Rafael,** Cochabamba. – **L.P. & D. PRGR.:** as 15).
17) **La Voz Minera,** Comando Movimiento Nacionalista Revolucionario Telemayo (Dept. Potosi).
18) **R. Universitaria,** Universidad Técnica 6 de Octubre y Cochabamba, Oruro. – **D.PRGR.:** 11.00–12.00, 16.00–20.00, 22.00–02.00.
19) **R. Splendid,** Pasaje Bella Vista 212, La Paz. – **D.PRGR.:** 12.15–13.00, 14.30–18.00, 22.00–02.30.
20) **R. Potosi,** Sucre 79, Potosi. – **L.P.:** Dir.: E. Rodriquez. S. – **D. PRGR.:** 13.00–15.00, 16.00–20.00, 00.30–03.00.
21) **R. Altiplano,** Av. E. Camacho 62, La Paz. – **L.P.:** Dir.: M. Carrasco V. – **D.PRGR.:** 11.00–05.00.
22) **R. Roosevelt,** "Academias Roosevelt", Cochamba. –
23) **R. Libertad,** Calvo 10, Sucre. – **L.P.:** Dir.: J. Taboada M. – **D. PRGR.:** 11.30–13.30, 18.00–20.00, 00.00–02.00.
24) **R. Chorolque,** Conjuto Teatral "Nuevos Horizontes", Tupiza (Dept. Potosi). – **D.PRGR.:** 16.00–18.00, 22.00–03.00.
25) **R. Cultura,** Tumusla Av. 14 de Enero, Cochambamba. – **L.P.:** Dir.: J. Maldonado M. – **D.PRGR.:** 11.30–13.00, 15.00–18.00, 21.00–02.30.
26) **R. Universidad,** Rectorado Universidad Mayor de "San Andrés", Av. Eleodoro Villazón, La Paz.
27) **R. Uyuni,** "La Voz del Ferroviario", Litoral 338, Uyuni (Dept. Potosi). – **D.PRGR.:** 11.00–13.00, 15.00–18.00, 22.00–01.00.
28) **R. Aspiazu,** Indaburo 434, La Paz. – **L.P.:** Dir.: H. A. Aspiazu. – **D.PRGR.:** 11.30–19.00, 21.00–03.30.
29) **Emisoras Unidas,** Av. E. Camacho 318, La Paz. – **D.PRGR.:** 11.30–18.00, 20.30–03.00.
30) **R. 9 de Abril,** Comando Movimiento Nacionalista Revolucionario, Pulacayo (Dept. Potosi).
31) **R. Cordillera,** Santa Cruz. – **D.PRGR.:** 14.00–18.00, 22.00–02.00.
32) **R. Oruro,** Oruro. – **D.PRGR.:** 14.00–19.00, 21.00–03.00.
33) **R. Indoamerica,** Hoyos 42, Potosi. – **L.P.:** Dir.: M. A. Careaga. – **D.PRGR.:** 12.00–14.00, 15.30–18.00, 21.00–03.00.
34) **R. Cochabamba,** Nataniel Aguirre 341, Cochabamba. – **D.PRGR.:** 11.00–14.00, 16.00–18.00, 23.00–03.00.
35) **R. Bolivia,** Capitan Castrillo 176, La Paz. – **D.PRGR.:** 12.00–14.00, 16.00–18.00, 23.00–03.00.
36) **R. Los Andes,** 15 de Abril 828, Tarija. – **L.P.:** Dir.: E. Monje. – **D.PRGR.:** 16.00–18.30, 00.30–02.30.

37) **La Voz del Minero,** Corp. Minera de Bolivia, Llallagua.
38) **R. Excelsior,** Sucre 657, La Paz. – **L.P.:** Dir.: C. Fernandez I. – **D.PRGR.:** 11.30–18.00, 20.00–03.00.
39) **R. Fides,** Colegio San Calixto, Jenaro Sanjinés, La Paz. – **D.PRGR.** 11.00–13.00, 16.00–18.00, 22.00–03.00.
40) **R. Mercurio,** Caro 560, Oruro. – **L.P.:** Dir.: J. M. Iraholz. – **D. PRGR.:** 11.00–15.00, 16.00–04.00.
41) **R. America,** Junin 660, La Paz. – **L.P.:** Dir.: L. Salcedo P. – **D.PRGR.:** 11.00–14.00, 16.00–18.00, 22.00–04.00.
42) **R. Pio XII, Siglo XX** (Dept. Potosi). – **L.P.:** Padres Oblatos. – **D. PRGR.:** 10.00–11.00, 15.30–17.00, 21.00–02.30.
43) **R. Luis de Fuentes,** Tarija. – **L.P.:** Dir.: A. E. Villena. – **D.PRGR.:** 14.00–16.00, 22.00–02.00.

★ BRAZIL ★

L.T.: Eastern (Coast): GMT÷3 h. Western: GMT÷4 h. – **P.L.:** Portuguese. – **Po.:** 61.268.000. – **Rcvrs.:** 4.570.000. – **E.C.:** 220 V., A.C., 50 c/s (Recife); 120 V., A.C., 50 c/s (Rio de Janeiro+Sao Paulo).

STATIONS: * Inactive

		kc/s	m	kW	m.w.	Name and h. of tr.
1)		2360	127.1	0.25	1560	R. Cultura do Nordeste: 09.00–04.00
2)		2370	126.6		1550	R. Cl. Fluminense
3)		2390	125.5	1	1550	R. Por um Mundo Melhor
4)		2410	124.1	1		R. Sirena: 11.00–15.00, 20.00–00.30
5)	ZYW32	2420	124.0	0.5	1480	R. Carajá de Anapolis: 09.00–03.00
6)	ZYR231	2450	122.5	0.5	1330	R. Cultura de Aracatuba: 10.00–02.30
7)	ZYR99	2460	122.0	0.5	1250	R. Cacique de Sorocaba: 09.00–03.00
8)	ZYR62	3255	92.17	0.5	1090	R. Cl. de Marilia: 09.00–04.00
9)	ZYR92	3265	91.87	4	780	R. Ribeirão Preto: 21.00–05.00
10)	ZYK21	3265	91.87	1	890	R. Tamandaré: 09.00–03.00
11)	ZYR31	3275	91.60	1	1210	Bauru R. Clube: 09.00–03.00
12)	ZYR89	3285	91.32	0.1	1600	R. Aparecida: 09.00–01.00
13)	ZYR220	3325	90.23	0.1	1440	R. Dif. Hora Certa
14)	ZYJ21	3325	90.23	1	1350	R. Borborema: 08.25–03.45
15)	ZYR59	3335	89.95	0.5	1240	R. Pres. Prudente: 10.00–02.00
16)		3335	89.95	1/10	1130	R. Marajoara: 21.00–03.00
17)	ZYV30	3340	89.81	0.5	1470	R. Dif. Brasileira: 12.00–02.00
18)	ZYS45	3365	89.15	0.5	690	R. Dif. do Parana
19)	ZYK78	3375	88.88	1	1030	R. Olinda de Pernambuco: 08.45–03.00
20)	ZYF23	4735	63.35	5	680	R. Dif. do Maranhão: 08.30–11.00, 13.00–16.00, 19.00–02.00
21)	ZYY3	4755	63.09	1	1270	R. Brasil: 09.00–04.00
22)	ZYR81	4775	62.84	5		R. Progresso de Sao Paulo
23)	ZYH29	4775	62.84	2	690	R. Dragão do Mar: 08.00–02.30
24)	ZYY20	4785	62.70	1		R. Dif. de Guaporé: 12.00–02.30
25)	ZYM8	4785	62.70	0.5		R. Ribamar: 09.00–02.00
26)		4795	62.57	1		R. Cultura de Cambuquira
27)		4795	62.57	2	1110	R. Trabajaras
28)	ZYS8	4805	62.43	5	1240	R. Dif. do Amazonas: 10.00–17.00, 19.00–03.05
29)	ZYP33	4815	62.31	1	1480	Petropolis R. Dif.: 10.30–03.00
30)	ZYH21	4815	62.31	1	1300	R. Iracema de Fortaleza: 08.00–04.00
31)	ZYV25	4825	62.18	0.5	1210	R. Cl. de Varginha: 11.00–01.00
32)	ZYF7	4825	62.18	0.5	1470	R. Educadora de Parnaiba: 14.00–16.00, 21.30–01.00
33)	ZYV37	4835	62.05	0.5	1390	R. Soc. Triangúlo Mineiro: 10.00–02.30
34)		4835	62.05	1		R. Dif. Roraima
35)	ZYY8	4845	61.92	1	1370	R. Dif. de Teresina: 09.00–01.00
36)	ZYR61	4855	61.79	1	720	R. Dif. Taubaté: 09.00–03.00
37)	PRC5	4865	61.66	2	1450	R. Cl. do Para: 21.00–03.00
38)	ZYZ30	4875	61.54	1	940	R. Jornal do Brasil: 10.00–03.30
39)		4885	61.41	1	1460	R. Dif. Acreana
40)	ZYV50	4885	61.41	5	1350	R. Cultura de Pocos de Caldas: 09.00–03.00
41)	ZYB22	4895	61.29	2.5	1480	R. Baré: 10.00–17.00, 20.00–04.00
42)	ZYN22	4895	61.29	1	1120	R. Cultura da Bahia
43)	ZYZ20	4905	61.16	5	590	R. Relógio Federal: 10.00–04.00
44)	ZYR60	4915	61.04	1	1370	R. Cultura de Araraquara: 09.30–02.00
45)		4915	61.04	2		Governo do Ter. Federal do Amapa
46)		4915	61.04	1	490	Emis. Rio Sao Francisco (under construction)
47)	ZYA36	4925	60.90	1	1090	R. Industrial de Juiz de Fora 09.00–03.00
48)	ZYI21	4935	60.80	1	1270	R. Poti: 09.00–03.00
49)	ZYO22	4945	60.67	1	1370	R. Capixaba
50)		4955	60.54	2	1110	R. Cultura de Campos: 09.00–03.00
51)	ZYY9	4975	60.30	2.5	1490	R. Timbira: 10.00–02.00
52)	ZYP27	4975	60.30	1	680	R. Copacabana: 10.00–05.00, 21.00–03.00
53)	ZYZ5	4985	60.18	0.5	1160	A Voz do Oeste: 09.30–01.30
54)	ZYX2	4995	60.06	5	1270	R. Brazil Central: 09.00–03.00
55)		5025	59.70	1	1330	R. Dif. de Aquidauana
56)	ZYW22	5035	59.37	1	1370	R. Anhanguera: 09.00–04.00
57)	ZYP23	5045	59.46	10	1320	R. Rio de Janeiro
58)	ZYO23	5055	59.35	2	730	R. Vitoria: 10.00–02.00
59)	ZYR226	5955	50.38	10	890	R. Gazeta: 21.00–04.00
60)	ZYU60	5965	50.28	7.5	720	R. Guaiba: 09.00–21.00
61)	ZYJ7	5975	50.21	10	1420	R. Guaruja: 11.00–18.00, 20.00–02.00
62)	PRK5	6000	50.00	5	880	R. Inconfidencia: 08.30–04.00
63)	PRA8	6015	49.88	5	720	R. Cl. de Pernambuco: 09.00–03.00
64)	ZYR63	6025	49.79	7.5	1200	R. Emis. Piratininga: 08.25–06.00
65)	ZYZ26	6035	49.71	7.5	1180	R. Globo: 09.00–03.00
66)	ZYS33	6045	49.63	7.5	1440	R. Cl. Paranaense: 09.00–03.00
67)	PRB21	6055	49.55	7.5	620	R. Panamericana: 11.00–03.00
68)	ZYZ31	6065	49.46	7.5		R. Rural Brasileira: W. 10.00–12.00, 20.00–22.00.
69)	ZYK2	*6085	49.30	15	780	R. Jornal do Comércio
70)	ZYB7	6095	49.22	25	960	R. Dif. de Sao Paulo: 10.00–03.05
71)	ZYN6	6105	49.14	5	1200	Ceará R. Clube: 21.00–04.00
72)	ZYC7	6115	49.06	100	1280	R. Tupi: 08.45–03.35
73)	PRG9	*6125	48.98	10	1100	R. Nac. de Sao Paulo
74)	PRC21	6135	48.90	7.5	680	R. Soc. Gaucha: 09.00–03.00
75)	PRL9	6147	48.80	50	980	R. Nac. Rio de Janeiro: 08.15–04.10
76)	ZYR58	6165	48.66	7.5	1300	R. Cultura: 10.00–02.30
77)	ZYR77	6185	48.50	10	840	R. Bandeirantes: 08.30–03.00
78)	PRD21	6195	48.43	7.5	1030	Emis. Continental: 09.00–02.30
79)	PSL	7935	37.81	20		Agencia Nacional: W. 22.30–23.00
80)	PRN9	9295	32.28	2.5	760	R. Dif. do D.S.F.P.: 22.30–02.00 (not Sun.)
67)	PRB22	9505	31.56	7.5	1000	R. Record: 22.00–02.30
81)	PRD5	9515	31.53	1	1400	R. Roquete Pinto: 10.00–03.00. Sun. 12.00–02.00
82)	ZYS43	9545	31.43	1/10	1210	R. Emis. Paranaense: 09.00–01.00
69)	ZYK3	9565	31.57	15	780	R. Jornal do Comércio: 09.55–16.05, 18.00–02.20
83)	ZYZ27	9575	31.33	10	1220	R. Mayrink Veiga: 09.00–03.45
84)	ZYR56	9585	31.30	7.5	670	R. Excelsior: 09.00–04.00
42)	ZYN29	9595	31.27	10	1120	R. Cultura da Bahia: 08.00–04.00
72)	ZYC8	9610	31.22	10	1280	R. Tupi: 08.45–03.35
85)	ZYR96	9620	31.19	7.5	540	R. 9 de Julho: 09.00–21.00
12)	ZYR83	9635	31.14	7.5	1600	R. Aparecida: 09.00–01.00
64)	ZYR64	*9635	31.14	7.5	1200	R. Emis. Piratininga
40)	ZYV40	9645	31.10	7.5	1350	R. Cultura de Pocos de Caldas: 09.00–22.00
86)	ZYT29	9675	31.01	10	1010	R. Diario da Manhã: 09.00–03.00
59)	ZYR227	9685	30.98	10	890	R. Gazeta: 15.00–04.00
87)	ZYB22	*9695	30.94	7.5	1480	R. Rio Mar:
88)	ZYZ24	9705	30.91	10	1130	Fundacão R. Maua: 08.00–03.00
75)	PRL7	9720	30.86	50	980	R. Nac. Rio de Janeiro: 08.15–04.10
89)	ZYU59	9730	30.83	7.5	600	R. Soc. Farroupilha: 09.00–03.00
76)	ZYR57	9745	30.79	7.5	1300	R. Cultura: 10.00–02.30
54)	ZYW23	9755	30.76	7.5	1270	R. Brasil Central 09.00–03.00
79)	PSH	10220	29.35	20		Agencia Nacional: W. 22.30–23.00
90)		11720	25.60	10	1210	R. Nacional Brasilia 09.00–04.00
91)	ZYG3	11735	25.56	7.5	1320	R. Cl. de Goiania: 10.00–03.00

Brazil

Call	kc/s	m	kW	m.w.	Name and h. of tr.
64) ZYR65	*11745	25.54	7.5	1200	R. Emis. Piratininga:
70) ZYB8	11765	25.50	25	960	R. Dif. de Sao Paulo: 09.00–03.00
83) ZYZ28	11775	25.48	10	1220	R. Mayrink Veiga: 09.00-03.45
60) ZYU61	11785	25.46	7.5	720	R. Guaiba: 21.00–04.00
65)	*11805	25.41	10	1180	R. Globo
54) ZYW24	11815	25.39	7.5	1270	R. Brasil Central: 09.00-03.00
69) ZYK32	*11825	25.37	15	780	R. Jornal do Comércio:
63) PRA8	11865	25.28	7.5	720	R. Cl. de Pernambuco: 09.00–03.00
92) ZYN32	11875	25.26	10	740	R. Soc. da Bahia 09.00–04.00
74) PRC20	11915	25.18	7.5	680	R. Soc. Gaucha: 09.30–04.00
77) ZYR78	11925	25.16	10	840	R. Bandeirantes: 08.30–03.00
66) ZYS35	11935	25.14	7.5	1440	R. Cl. Paranaense: 10.00–03.00
93) PRL3	11950	25.10	7.5	800	R. Dif. Educativa: 10.00–04.00
67) PRB24	11965	25.07	7.5	1000	R. Record: 22.00–02.30
79) PSF	14690	20.45	20		Agencia Nacional: W. 22.30–23.00
68) ZYZ32	15105	19.86	7.5		R. Rural Brasileira: W. 10.00–12.00, 20.00–22.00. Sun. 11.00–15.00
94)	*15115	19.85	7.5	560	R. Soc. Guairaca
92) ZYN31	*15125	19.83	10	740	R. Soc. da Bahia
67) PRB23	15135	19.82	7.5	1000	R. Record: 11.00–03.00
69) ZYK33	15145	19.81	15	780	R. Jornal do Comércio: 09.55–02.20
70) ZYB9	15155	19.80	25	960	R. Dif. de Sao Paulo: 12.00–20.30
71) ZYN7	15165	19.78	5	1200	Ceará R. Clube: 09.00–21.00
62) PRK9	15190	19.75	5	880	R. Inconfidencia: 08.30–04.00
51) ZYY9	*15215	19.71	2.5	1490	R. Timbira
42) ZYN30	*15225	19.70	10	1120	R. Cultura da Bahia
16) ZYE21	15245	19.68	1/10	1130	R. Marajoara 09.00–21.00
73) PRG9	15265	19.66	10	1100	R. Nac. de Sao Paulo: 09.00–05.00
75) PRL8	15295	19.62	10	980	R. Nac. Rio de Janeiro: 08.15–04.10
59) ZYR228	15325	19.58	10	890	R. Gazeta: 10.30–21.00
89) ZYU68	15335	19.56	7.5	600	R. Soc. Farroupilha: 09.00–03.00
72) ZYC9	15370	19.52	10	1280	R. Tupi: 08.45–03.35
95) ZYR206	15415	19.46	1	730	R. Cl. de Ribeirão Preto: 09.00–13.00, 19.00–04.00
96) ZYR232	17725	16.93	1		R. Universitaria Santos Dumont: 23.00–02.00
28)	*17795	16.86	5	1240	R. Dif. do Amazonas
76) PRL9	*17850	16.81	10	980	R. Nac. Rio de Janeiro:
93) PRL2	17875	16.79	7.5	800	R. Dif. Educativa: 10.00–04.00

Medium Waves: °=Short Waves. [1]=also FM.

Call	kc/s	kW
85) ZYR98	°540[1]	
97) ZYZ22	550[1]	10
98) ZYN4	560	1/0.25
94) ZYN5	°560	10/5
99) PRG5	580	1/0.5
100) ZYN3	580	1/0.5
101) ZYD4	580[1]	1/0.5
43) ZYZ21	°590[1]	5/1
102) ZYS50	590	1/0.5
89) PRH9	°600[1]	50
67) PRH7	°620[1]	10/5
103)	620	10
104)	630	1
105) ZYV44	630	1/0.25
106) ZYA3	630	1
107) PRJ6	630	1
108) ZYR219	640	1/0.25
109) PRG6	640	1/0.5
110) ZYI21	640	1
82) ZYS47	640	1
111) PRF9	640	10/5
84) ZYR56	°670[1]	10
20) ZYF24	°680	5
112) ZYB7	680	5
69)	680	1/0.5
52) ZYP20	°680[1]	5
74) PRG2	°680[1]	10/5
113) ZYR55	690	1/0.1
23)	°690	10
114) PRC7	690[1]	25/10
18) ZYS44	°690	0.25
115) ZYN3	690	1/0.5
97) ZYR213	700[1]	50
36) ZYA8	°720[1]	1
63) PRA8	°720	0.25
60) ZYU58	°720[1]	10
58) ZYO21	°730	1
95) PRA7	°730[1]	1/5
116)	730	1/0.25
117) ZYO9	730	1/0.25
92) PRA4	°740[1]	50
80)	°760	2
69) PRL6	°780	20
118) ZYP30	780[1]	0.25
9) ZYR79	°780	0.25/01
93) PRA2	°800[1]	25
119) ZYA4	820	1/0.25
120)	820	1
77) PRH9	°840[1]	10/5
121) ZYD8	840	10/5
122) PRA3	860[1]	50
62) PRI3	°880[1]	50
123) ZYU33	880	10
59) PRA6	°890[1]	10
10) ZYK20	°890[1]	20
124) ZYI23	900	10
125) ZYH26	900[1]	10
126) PRJ3	930	5
127) ZYT3	930	5/0.25
128) ZYM20	930	5
38) PRF4	°940	50
70) PRF5	°960[1]	10/5
129) ZYO4	960	10
130) ZYF5	960	1/0.25
131)	970	1
75) PRE8	°980[1]	50
67) PRE9	°1000[1]	50
42) ZYN23	1010	5
132) PRB3	1010	2/0.5
86) ZYT26	°1010	0.25
133)	1020	20
134) PRB8	1030	1/0.25
19) ZYK7	°1030[1]	5
78) PRD8	°1030	10/5
135)	1040	50
136) PRD2	1060	10
137) PRB7	1080	1/0.5
138) ZYN24	1080	1/0.5
139) ZYV47	1080[1]	1/0.25
140) ZYV52	1080	0.25
141) ZYB4	1080	1/0.5
142) ZYX7	1080	1/0.25
69) ZYK22	1080	1/0.5
143) ZYE4	1080	1/0.5
144) ZYU67	1080[1]	2/0.5
8) PRI2	°1090	1
47) ZUT9	°1090	1/0.5
145)	1090[1]	1/0.25
73) PRG9	°1100	50
146) ZYU50	1100[1]	1/0.25
27) PRI4	°1110[1]	10
50) PRF7	°1110[1]	5
147) ZYT25	1110	1/0.25
42) ZYN20	°1120[1]	10
148)	1120	20
88) PRH8	°1130	10/5
16) ZYE20	°1130[1]	10
149) ZYI24	1130	1
150)	1130	1/0.25
151) ZYT34	1130	1/0.25
152) ZYK34	1130	1
153) ZYH7	1160	1/0.25
154) PRI9	1160	10
53) PRH3	°1160	1
155) PRF5	°1160	1
156) ZYA5	1160	1
157) PRC9	1170[1]	5
158) ZYI20	1170	1
159)	1170	1/0.25
160) ZYU38	1170	1/0.25
65) PRE3	°1180[1]	50
64) PRB6	°1200	10
71) PRE9	°1200	10
90)	°1210	10/1
11) PRG8	°1210	1/0.5
161) ZYL9	1210	1/0.5
41)	°1210	1
31) ZYB2	°1210	0.5
82) ZYZ9	°1210	0.5
69) ZYK23	1210	1/0.5
83) PRA9	°1220[1]	50
153) ZYR84	1240	1/0.25
28) ZYB21	°1240	5
162) ZYC4	1240	1/0.5
163) ZYT43	1240	0.1
164) ZYP4	1240	1/0.5
15) ZYR84	°1240	1
7) ZYR43	°1250	0.1
165) PRJ2	1250	1/0.5
166) PRA5	1260[1]	10/5
167)	1260	10
54) ZYX9	°1270[1]	10
21) ZYR39	°1270[1]	0.25
168) ZYS23	1270	1/0.25
48) ZYB5	°1270	1
72) PRG3	°1280[1]	50
76) PRE4	°1300[1]	10/5
30) ZYR7	°1300[1]	10
169)	1300	1
52)	1320[1]	10/5
170) ZYR201	1320	1
91) ZYG3	°1320	2
57) ZYZ34	°1320	10
167)	1320	1
171) PRH4	1320	1/0.5
172) ZYT31	1320	1/0.25
6) PRI8	°1330	1/0.5
55) ZYX20	°1330	0.25
173) ZYV33	1330	1/0.5
174) ZYI5	1330	1/0.5
69)	1330	1/0.5
69)	1330	1/0.5
175) PRC4	1330	1/0.5
176) ZYR49	1340	1
71)	1340	1
177) PRH6	1340[1]	25/5
178) ZYX2	1340	1
179) ZYX5	1340	1/0.25
40) PRH5	°1350	5
14) ZYO7	°1350	1
180) PRC8	1360[1]	5
181) ZYH25	1360	10
44) PRD4	°1370[1]	1/0.5
49) ZYO22	°1370	1
182) ZYK31	1370	10
56) ZYW21	°1370	1
35) ZYQ3	°1370	1
183) ZYF3	1370	5
33) PRE5	°1390	1/0.25
184) ZYS46	1390	1/0.25
69) ZYK24	1390	1
185) ZYJ2	1390	1/0.5
81) PRD5	°1400	10/5
186) PRE7	1410[1]	25/10
125)	1410	10
187) ZYI4	1420	1/0.25
188)	1420	1/0.1
36) ZYR47	1420[1]	0.1
61) ZYJ7	°1420[1]	5/2.5
189) PRE2	1430	10/5
13) ZYR207	°1440[1]	0.1
66) PRB2	°1440[1]	20/10
190) ZYW31	1440	1
191) PRB4	1450	5/2
37) PRG5	°1450	10
192) ZYJ20	1450	1
193) ZYP36	1450	5/0.25
39) ZYD9	°1460	0.25
30) ZYH22	1460	1
194) ZYF20	1460	0.25
195) ZYE3	1470	1/5
196) ZYD2	1470	1/0.5
17) PRC6	°1470[1]	1/0.5
197) ZYZ6	1470	1
32) PRJ4	°1470	0.5
198) ZYN3	1470	1/0.5
5) ZYJ3	°1480	0.5
41) ZYS20	°1480[1]	10
87)	°1480	
199) ZYH	1480	1
29) PRD3	°1480	5
51) PRJ9	°1490	2.5
200) ZYA2	1490	2
46)	°1490	0.25
78) ZYP29	1490	10/0.5
201) ZYI	1512	
202) ZYS9	1540	1/0.1
203)	1540	25
2)	°1550[1]	0.25
3)	°1550	1
1) ZYK30	°1560	
204) ZYU23	1570[1]	1/0.1
205) ZYO3	1580	1/0.5
206) ZYJ4	1600	0.1
12) ZYR44	°1600	0.1

States - abbreviations: ER = Estado do Rio. ES = Espirito Santo. MG = Minas Gerais. Pe = Pernambuco. RGN = Rio Grande do Norte. RGS = Rio Grande do Sul. SC = Santa Catarina. SP = Sao Paulo.

Short Waves:

1) Rua do Expedicionario, 2° andar Edif. Sao José, Caruaru, Pe. – V. by letter. 2) Caxias, Nilopolis, Sao João.

3) C. P. 211, Governador Valadares, MG – ANN.: "Rádio Por um Mundo Melhor, Governador Valadares, Minas Gerais".

4) C. P. 6, Leopoldina, MG – Cable: "Sirena". – L.P.: Dir. Gen. C. G. Mendes Monteiro. Dir. Prgr. J. C. Gorrado. Dir. Tec. M. D.

Machado. – **D. PRGR.:** N.: 11.30, 13.00, 20.30, 00.15. – **"A Voz do Brasil":** 22.30–23.00. – **ANN.:** "Transmite a Rádio Sirena, de Leopoldina, emissora do Sistema Rádio Educativo Nacional". – V. by letter. – **F. PL.:** M.w.

5) Praça Bom Jesus 18, Anápolis, Goias. – **L.P.:** Dir. P. Jayme, F. Cunha, C. Guerra, E. Simonnetti. – **ANN.:** "Através de suas emissoras de ondas médias e curtas, está transmitindo a Rádio Carajá, de Anàpolis, Brasil". – **F.PL.:** 1 kW on s. w. & m. w.

6) Rua Osvaldo Cruz 67, Aracatuba, SP. – **D. PRGR.: M. w.:** 11.00–02.30. **Japanese: 12.00–13.30 - ANN.:** "Emissora brasileiras da Rádio Cultura de Aracatuba PRI8, 1330 kc ondas médias e ZYR231, 2450 kc, ondas tropicais". V. by letter.

7) Rua Miranda Azevedo 311, Sorocaba, SP.

8) Rua Paes Leme 20, Marilia, SP. – **L.P.:** Dir. Gen.: O. Lignelli.

9) C. P. 814, Ribeirão Preto, SP.

10) Av. Cruz Cabuga 394, Santa Amaro, Recife, Pe.

11) Praça dos Expedicionários, Bauru, SP. – V. by letter.

12) Praça NS, Aparecida 315, Aparecida. – **D. PRGR.:** N.: 17.55. **English:** Sat. 24.00. – V. by letter. R. p.

13) Guarulhos, SP. – **D. PRGR.: Japanese:** 15.00–17.00.

14) Ed. Sao Luiz, 1° e 2° andares, Paraiba – **L.P.:** Dir.Gen.: H.Citlota – N.: 21.10, – 01.15 – V. by QSL-card.

15) C. P. 5, Pres. Prudente, Sao Paulo – **L.P.:** Dir. Gen. A. Campos. **D. PRGR.: Japanese.** 12.00–12.30, 23.00–23.30 **ANN.:** "R. Presidente Prudente, uma das Emissoras Coligadas, falando para todo o Brasil" or "PRI5 e ZYR59, R. Difusora de Presidente Prudente, uma das Emissoras Coligadas, transmitindo sumiltâneamente em ondas médias e curtas, 1240 kcs. onda de 242.5 mts e 3335 kcs, onda de 89 mts."

16) C. P. 491, Belém, Para.

17) C. P. 173, Uberlandia, MG. – V. by letter.

18) Londrina, Paraná.

19) C. P. 1313, Recife, Pe. – **D. PRGR.:** 1030 kc/s: 08.45–06.00.

20) C. P. 152, Sao Luiz, Maranhão. – V. by letter.

21) C. P. 625, Campinas, Sao Paulo. – **L.P.:** Pres. A. Pedroso. Dir. Gen. S. Pedroso. – **D. PRGR.: Japanese:** 09.00–10.00, 20.30–21.00. **German:** 11.00–12.00. – **ANN.:** "ZYY3 – Rádio Brasil de Campinas – ZYR39 – Rádio Brasil de Valenhos emissoras brasileiras da Organizacão Irmãos Pedroso". – V. by letter.

22) Av. Liberdade 1034, Sao Paulo.

23) Rua Pereira s/n, Fortaleza, Ceará. – **ANN.:** "A Voz mais potente do Nordeste".

24) Av. Ferquar, Guaporé, Poeto Velho, Rondonia. – V. by letter or QSL-card.

25) Rua do Apium 118–130, Sao Luiz, Maranhão. – 26) Cambuquira.

27) Rua Rodriguez de Aquino s/n, Joao Pessoa, Paraiba.

28) Rua Joaquim Sarmento 100, Manaus, Amazonas.

29) Praça D. Pedro II°, 17, Petropolis. – **Cable:** "Difusora". **L.P.:** Dir. Gen. W. C. Malta. Dir. Tec. I. Nicolay. – **D. PRGR.:** N.: 16.00, 23.25, 01.05, 02.45. **Wrp.:** 13.00, 15.00, 17.00, 19.00. – **ANN.:** "Emissoras de ondas medias e curtas da Petropolis Rádio Difusora, o microfone lider do Estado do Rio". – V. by letter.

30) Rua 24 de Maio 554, Fortaleza, Ceará.

31) C. P. 102, Varginha, MG. – **ANN.:** "Para Minas, para o Brasil, falando Rádio Clube de Varginha, em ondas médias e curtas". – V. by letter. – 32) C. P. 31, Parnaiba, Piaui. – V. by letter.

33) Rua Major Eustaquio 13, Uberaba, MG.

34) Boa Vista, Rio Branca.

35) Aerolino de Abreu 1157, Teresina, Piaui.

36) Rua Visconde do Rio Branco 247, Taubaté, SP. **Te.:** 2604. – **FI.:** By adv. – **L.P.:** Dir. Gen. E. A. Berings. Dir. Prgr. M. F. da Silva. – **D. PRGR.:** N.: 14.30, 22.00. **Nat. Music:** 09.00–. **ANN.:** "Emissoras Brasileiras da Rádio Difusora Taubaté, São Paulo". – V. by QSL-card. Re. in E., Sp., P. or F. – **F. PL.:** 5 kW on. mw. 2 kW on s. w. New s. w.-tr. on 31 m (7.5 kW).

37) Av. Pres. Vargas, Belém, Para. – **D. PRGR.:** 1450 kc/s: 09.00–03.00. – V. by letter or QSL-card.

38) Av. Rio Branco 110, Rio de Janeiro. – **D. PRGR.: Esperanto:** Mo., Wed., Fri. 11.00–11.30. – **ANN.:** "PRF4 R. Jornal do Brasil, musica e informacão." – 39) Rio Branco, Acre.

40) C. P. 143, Pocos de Caldas, MG. – V. by letter or QSL-card.

41) Av. Edurado Ribeiro 566, Manaus, Amazonas.

42) Av. 7 de Setembro 311, Salvador (ZYN23: R. Itaparica da Bahia). **Cable:** "Radicultura". **Te.:** 8880 – **FI.:** By adv. **L.P.:** Pres. J. J. de Carvalho. Mgr. G. Mascarenhas. – V. by letter or QSL-card.

43) Av. Pres. Vargas 417-A, Rio de Janeiro. **D. PRGR.:** M. w. 24 h. – **ANN.:** "R. Relogio Federal, hora certa minuto à minuto".

44) C. P. 22, Araraquara. – 45) Amapa, Amapa. – 46) Penedo, Alagoas.

47) Rua Alfeld, Juiz de Fora, MG. – **D. PRGR.:** 09.00–12.00, 13.00–16.00, 18.00–03.00. **Esperanto:** Mo. 00.45–01.00.

48) C. P. 145, Natal – **Cable:** "Radiopoti" – **D. PRGR.: Esperanto:** Sun. 10.50–11.00. **Int. prgr.:** D. 02.30–03.00 in **F., E., P.**

49) Vitória, Espirito Santo – **L.P.:** Dir. A. S. Gonvea – **ANN.:** "Estacoes de ondas médias e curtas da Rádio Capixaba, Vitória, Brasil".

50) C. P. 79, Campos, ER. **Te.:** 1582 – **L.P.:** Dir. Gen. M. F. Sampaio. Dir. Tec. W. Lobo – **D. PRGR.:** N.: 10.30, 13.00, 14.30, 16.00, 18.00, 22.00, 01.30 – V. by letter.

51) Ed. da Imprensa Oficial, São Luiz, Maranhão.

52) Av. Rio Branco 277, 16° andar, Rio de Janeiro, Guanabana. – **L.P.:** Dir. Gen. A. de Lima Sant'Ana. Dir. Tec. G. Mannes. – **D. PRGR: M. w.:** 09.00–03.00. **German:** W. 22.00–22.30. Sun. 15.00–17.30, 21.45–23.30. **English:** Sun. 00.00–03.30. **Spanish:** Sat. 23.00–01.00. **Esperanto:** Sun. 23.45–00.00. – **ANN.:** "R. Copacabana, a emissora do Otimismo."

53) Praca Ipiranga 172, Cuiba, Mato Grosso. – **D. PRGR.: Japanese:** 23.30. – 54) C. P. 330, Goiania, Goiás. – V. by QSL-card or letter.

55) Aquidauana, Mato Grosso. – 56) Av. Anhanguera 92, Goania.

57) Rio de Janeiro. – 58) Av. Florentino Avides 492, Vitoria.

59) Av. Cásper Líbero 88, 2° andar, Sao Paulo. – **FI.:** By adv. – **L.P.:** Dir. Gen. J. F. Ferreira Jorge. Dir. of Broadc. H. Carvalho de Castro. Dir. Prgr. M. A. Bellardi. – **D. PRGR.: German/Portuguese:** Sun. 19.05–19.55. V. by letter. Re in E., F., Sp. or I. – FM: 88./Mc 250 w.

60) Rua Caldas Jr. 219, Porto Alegre. – **FI.:** By adv. – **L.P.:** Dir. Gen. A. Pasqualini. Dir. Prgr. J. A. B. Mendes Ribeiro. Dir. Tec. H. C. Simon. Dir. For. Rel. Dr. F. A. Gomes.

61) C. P. 45, Florianopolis, SC. – **L.P.:** Dir. A. Silva. – V. By QSL-card.

62) C. P. 1027, Belo Horizonte, MG. **Te.:** 21589. **FI.:** By Go. and adv. – **L.P.:** Dir. Gen. Dr. M. A. Andrade. Dir. Tec. A. Praça da Piedade. – **D. PRGR.:** N.: 11.00, 16.00, 22.00, 01.00. **"Jornais Falado":** 15.15, 01.30. **Italian:** Sun. 22.30. **English:** 21.00. – **ANN.:** P.: "Aqui Falam PRI3, PRK5 e PRK9, Emissoras de ondas curtas e médias da Rádio Inconfidência, Belo Horizonte, Minas Gerais, Brasil". – **F.:** "Ici parlent les postes PRI3, PRK5 et PRK9 de la Radio Inconfidencia, Belo Horizonte, Minas Gerais, Brazil". – **INT. SIG.:** Gong. – V. by QSL-card or letter. Reports in English allowed.

63) Av. Cruz Cabuga 394, Recife, Pe. – V. by QSL-card.

64) Rua 24 de Maio 208, 10° andar, Sao Paulo. – **Cable:** "Santalina". – **Te.:** 334175. – **FI.:** By adv. – **L.P.:** Dir. M. Leuzzi Junior. Dir. Tec. O. Palhiuky. – **D. PRGR.:** On 1200 kc/s 24 h. **Japanese:** 08.30–10.00. **German:** W. 16.00–16.30. – V. by QSL-card. – **F.PL.:** Increase power 25 kw – Increase of transmissions to 24 h. daily.

65) Rua Ireneu Marinho 35, Rio de Janeiro, Guanabara. – **ANN.:** "PRE3 e ZYZ26, emissoras de O GLOBO, o maior jornal do pais". – V. by QSL-card.

66) Rua Barão do Rio Branco 135, Curitiba, Paraná. – V. by letter.

67) Rua Riachuelo, 295, Sao Paulo (PRH7/PRB21), Rua Quintino Bocaiuva 22, Sao Paulo (PRE9/PRB22/PRB23/PRB24). – **D. PRGR.:** 1000 kc/s 24 h. **Japanese:** 09.00–09.30.

68) Servicio de Informacão Agricola, 4° andar do Ministério da Agricultura, Largo da Misericordia, Rio de Janeiro, Guanabara. – **L.P.:** Dir. J. Anastácio Vieira. – **D. PRGR.:** N.: 10.30, 20.30 (Sun. 14.30). – **ANN.:** "Ouvem a Emissora do Agricultor, Rádio Rural, Rio de Janeiro, Brasil". – V. by QSL-card.

69) Rua Marquez do Recife, Pe. – **L.P.:** Dir. Gen. Dr. F. Pessoa de Queiros. Dir. Tec. Dr. P. Pessoa de Queiros. – **D. PRGR.:** PRL6: 07.55–04.00. **English:** "Brazil Calling" D. 01.05–01.30 on 9565 kc/s. – **ANN.:** "Rádio Journal do Comércio, Recife, Pernambuco, ondas médias e curtas" or "Emissoras brasileiras da Rádio Jornal do Comércio, Recife, Pernambuco, a voz mais potente do Brasil". **E.:** "Pernambuco speaking to the world. This is Brazil calling". – V. by QSL-card.

70) C. P. 252 & 4142, Sao Paulo. – **D. PRGR.: Japanese:** 10.00–11.00. **Italian:** 00.00–00.30. – V. by QSL-card or letter.

71) C. P. 222, Fortaleza. – V. by letter.

72) Av. Venezuela 43, Rio de Janeiro, Guanabara. – **L.P.:** Dir. Gen. Dr. J. de Medeiros Calmon. Dir. Tec. I. Olimpiew. – **ANN.:** "Rádio Tupi do Rio de Janeiro, o Cacique do Ar". – V. by letter.

73) Rua 24 de Maio 208, Sao Paulo.

74) **C. P. 1164,** Porte Alegre. – **Cable:** "Pioncira". – **L.P.:** Dir. M. S. Sobrinho. – **D. PRGR.: German:** Sat. 21.45–22.00. – V. by QSL-card.

75) Praca Maua 7, 19–22° andar, Rio de Janeiro. – **Te.:** 438850. – **L.P.:** Dir. M. Aréas. – **D. PRGR.:** M. w.: 24 h. – **ANN.:** "Quvem Rádio Nacional, Rio de Janeiro, Brasil, por suas emissoras de ondas curtas, médias e frequência modulada". – **INT.-SIG.:** First movement of the Brazilian musical poem "Luar do Sertão". – V. by QSL-card.

76) Av. São João 1285, Sao Paulo. – **D. PRGR.: German:** W. 21.30–22.30, Sun. 23.00–23.30. **Japanese:** 09.00–11.00, 22.00–22.30, 23.00–24.00

77) Rua Paula Souza 181, Sao Paulo. – **L.P.:** Pres. J. Jorge Saad. Dir. Gen. M. P. Leito. Dir. Tec. J. da Costa Oliveira. – **D. PRGR.:** PRH9: 24 h. – **ANN.:** "Rádio Bandeirantes de Sao Paulo, transmitindo simultaneamente pelas suas estacoes: PRH9 ondas médias 840 kc/s, ZYR77 ondas curtas 6185 kc/s, ZYR78 ondas curtas 11925 kc/s – a mais popular Emissora Paulista". – **INT.-SIG.:** Vibraphone and organ. – V. by QSL-card or letter.

78) Rua Riachuelo 48, Rio de Janeiro. – **ANN.:** "PRD8 e PRD21, emissoras de onda média e curta da R. Emissora Continental...."

79) Av. Pres. Wilson 164, Rio de Janeiro **(Go., operated by the Ministry of Justice and Interior).** – **L.P.:** Dir. Broadc. J. L. Padilha. – **D. PRGR.:** W. 22.30–23.00 "A Voz do Brasil" relayed by all stations. – V. by letter.

80) R. Difusora do Departemento Federal de Seguranca Publica

(D.F.S.P.), Rua Relacao, Rio de Janeiro. – **D. PRGR.:** Special programmes to foreign countries 00.00–01.00 (Brazilian popular music & general information about Brazil) is announced in English, German, Spanish, Portuguese and possibly in French & Japanese. – **V.** by QSL-card and streamer.

81) Av. Almirante Barosso 81, Rio de Janeiro. – **D. PRGR.: Esperanto:** Sat. 21.00–22.00. – **ANN.:** "Rádio Roquette Pinto, Emissora da Prefeitura do Distrito Federal".

82) C. P. 471, Curitiba, Paraná. **Te.:** 41393. – **L.P.:** Dir. Vasconcellos. – **D. PRGR.:** M. w.: 09.00–03.00. **Japanese:** 11.30–12.30 – ZYS47 R. Curitibana. – **D. PRGR.:** 09.00–02.00.

83) Rua Mayrink Veiga 15, Rio de Janeiro. **Te.:** 235991 – **FI.:** By adv. – **L.P.:** Dir. Gen. W. G. Morrissy. Dir. Tec. E. B. Laceria. – **D. PRGR.:** M. w.: 24 h. – **V.** by QSL-card.

84) Rua das Palmeiras 322, Sao Paulo. – **L.P.:** Dir. G. Baszynski. Dir. Tec. G. Rabenhorst. – **D. PRGR.: Japanese:** D. 09.00–09.45. **German:** 10.00–12.00 (Sun. 13.00). **French:** Sat., Sun. 23.30–23.55.

85) Rua Wenceslau Braz. 78, Sao Paulo. – **D. PRGR.: Japanese:** 10.30–11.00. **German:** D. 14.30–15.00, 23.00–23.30.

86) C. P. 331, Florianopolis, SC. – **D.PRGR.: German:** Sat. 18.00–19.00. – **V.** by letter. – **ANN.:** "Emissoras brasileiras de onda média e curta da R. Diario da Manha, de Florianopolis, Santa Catarina". or "Estaçoes de Florianópolis da Rádio Diáro da Manhã – **V.** by QSL card – **F. PL:** 10 k.w. m.w. st.

87) Av. Epaminondas 555, Manaus, Amazonas. – **D.PRGR.:** 09.30–12.30, 14.30–18.30, 21.00–02.00. **N.:** 10.00, 16.30, 23.30. – **V.** by letter.

88) Palacio do Trabalho, 2° andar, Rio de Janeiro. – **D.PRGR.: German:** Thurs. 21.15–22.00. – **ANN.:** "Escutam a R. Maua, a emissora do trabalhador".

89) Rua 7 de Setembro 1142, Porto Alegre, RGS. – **ANN.:** "Estas sao as emissoras da Rádio Farroupilha, Porto Alegre, Brasil, a mais potente do sul do pais". – **V.** by QSL-card.

90) C. P. 442, Brasilia, D. F.

91) Rua Dois 5, Goiânia, Goiás. – **ANN.:** "ZYG3 ondas médias e curtas da Rádio clube de Goiânias, pertencente á rede nacional de Emissoras Associadas". – **V.** by QSL-card.

92) Rua Portugal 6, 2° andar, Salvador, Bahia.

93) Praca da Republica 141-A, Rio de Janeiro, Guanabara (**O.: The Federal Government, operated by the Ministry of Education**). – **L.P.:** Dir. Gen.: J. Mozart de Araujo. Dir. Tec.: J. Labre Junior. – **D.PRGR. L.L.:** Mo., Wed., Fri.: **Portuguese:** 10.00–10.30. **English:** 10.30–11.00. **Spanish:** 11.00–11.30. **French:** 11.30–12.00. Mo., Thurs.: **German:** 21.00–21.25. – **V.** by letter. – 94) C. P. 1053, Curitaba, Paraná.

95) C. P. 18, Ribeirão Preto, SP. – **ANN.:** "PRA7, Rádio Clube de Ribeirão Preto, onda média de 730 kc/s e ZYR206, onda curta de 15415 kc/s".

96) R.U.S.D. – I.T.A., Sao José dos Campos, SP. **Te.:** 450. – **L.P.:** Dir. Gen.: A. Tyla. Dir. Tec.: F. da Veiga Watson. Dir. Prgr.: T. Perrone. Dir. Pub. Rel.: H. A. Rüdiger. – **D.PRGR.: N.:** 01.00. Other prgr's mostly Brazilian music and music from the Americas. – **ANN.:** "Your Attention, please. This program is coming to you from the United States of Brazil. Here, the radio station of Aeronautics Institute of Tecnology, operated by students of Brazil, in 17725 kilocycles in the 17 meter band. We would like to receive letters from our listeners all over the world giving us some information about the quality of reception. Those who write to us will receive pictures of Brasilia, our new capital, well known as the most modern city in the world". **F.PL.:** FM 1 kW. – **PUB.:** prgr. schedule on request.

Medium Waves:

97) **R. Eldorado,** Av. Pres. Vargas 417-A, 12° andar, Rio de Janeiro. – **Te.:** 231726. **FI.:** By adv. – **L.P.:** Dir. Gen.: Dr. J. M. Homem de Montes. Dir. Prgr.: S. Vioti. Dir. Tec.: C. de Abreu. – **D.PRGR.:** 10.00–04.00.

98) **R. Soc. Passos,** Passos, MG.

99) **Soc. R. Atlántica,** C.P. 7, Santos, SP.

100) **R. Cataguazes,** Cataguazes, MG.

101) **R. Londrina,** C. P. 444, Londrina, Paraná. – **D.PRGR.: Japanese:** 09.45–10.15, 23.00–23.30.

102) **R. Dif. Ouro Verde,** Rua Monsenhor Celso 211, Curitiba, Paraná.

103) **R. Assuncão Cearense,** Fortaleza, Ceara.

104) **R. Dif de Cuiabá,** Mato Grosso.

105) **R. Dif. Triangulina,** Uberaba, MG.

106) **R. Dif. de Cambará,** C. P. 78, Cambará, Paraná.

107) **R. Dif. de Sergipe,** C. P. 6, Aracuja, Sergipe.

108) **R. A Voz da Araraquarense,** Araraquara, SP.

109) **R. Mantiqueira,** C.P. 62, Cruzeiro, SP.

110) **R. Cabugi,** Av. Rio Branco 729, Natal, RGN. – **D.PRGR.:** 08.55–02.00. – 111) **R. Dif. Portoalegrense,** Porto Alegre, RGS.

112) **R. Soc. Norte de Minas,** C. P. 56, Montes Claros, MG.

113) **Soc. R. Dif. de Sorocaba,** Santos, SP.

114) **R. Mineria,** Belo Horizonte, MG.

115) **R. Cl. de Lages,** Rua 15 de Novembro, Lages, SC. – **D.PRGR.:** 10.00–02.30. – 116) **R. Dif. de Minas Gerais,** Juiz de Fora, MG.

117) **Soc R. Tubá,** Tabarã, SC.

118) **R. Imperial,** C. P. 5992, Petropolis, Rio de Janeiro, Guanabara.

119) **R. Dif. Paraisense,** S. Seb. do Paraiso, MG.

120) **R. Universidade de Recife.** Recife, Pe.

121) **R. Excelsior da Bahia,** Rua Guedes de Brito 14-A, Salvador, Bahia, – **D. PRGR.:** 10.00–03.00.

122) **R. Mundial,** Av. Rio Branco 181, 3° andar, Rio de Janeiro, Guanabara. – **L.P.:** Dir.: A. Zarur. Dir. Tec.: P. Romano. – **D.PRGR.:** 09.00–03.00 (Sun. 04.00). **Yiddish: "A Voz Israelita": D.** 22.00–22.30.

123) **R. Itai,** Rua Andrades 1155, Porto Alegre, RGS. – **D.PRGR.:** 09.00–03.55.

124) **R. Nordeste,** Rua João Pessoa 86, Natal, RGN.

125) **R. Tamoio,** Av. Venezuela 43, Rio de Janeiro. Guanabara. – **L.P.:** as 72). – **D.PRGR.:** 09.00–04.00. – **ANN.:** "R. Tamoio... musica, exclusivamente musica". – **V.** by letter.

126) **R. Araguari,** Araguari, MG. – 127) **R. Araranguá,** Araranguá, SC.

128) **R. Libertade de Sergipe,** Aracuja, Sergipe.

129) **R. Dif. de Alagoas,** Maceio, Alagoas.

130) **Emis. Reunidas R. Cultura,** Passo Rundo, RGS.

131) **R. Educ. do Nordeste,** Sobral, Ceará.

132) **R. Soc. de Juiz de Fora,** Juiz de Fora, MG.

133) **R. Campos Gerais,** Curitiba, Parana.

134) **R. Rio Preto,** José do Rio Preto. – 135) **R. Tupá,** Sao Paulo.

136) **Soc. R. Emis. Metropolitana,** Rua Richuelo 48, Rio de Janeiro, Guanabara. – **D.PRGR.:** 10.00–03.00.

137) **R. Cl. de Sorocaba,** C. P. 1, Sorocaba, SP.

138) **R. Cultura Peira de Santana,** Peira de Santana, Bahia.

139) **R. Minas,** Av. Alfonso Pena 867, 14° andar, Belo Horizonte.

140) **R. Cultura de Cambuquira,** Cambuquira.

141) **R. Cl. de Patos,** Patos de Minas, MG.

142) **R. Teófilo Otoni,** Teófilo Otoni, MG.

143) **R. Soc. de Friburgo,** Praca Getulius Vargas 74, Nova Friburgo, ER. – **D.PRGR.:** 11.00–16.00, 18.00–01.00.

144) **R. Universidade do Rio Grande do Sul,** Porto Alegre, RGS.

145) **R. Colon,** Joinville, SC.

146) **R. Emis. do Nordeste,** Flores da Cunha, RGS.

147) **R. Anita Garibaldi,** Rua João Pinto 32, Florianopolis, SC.

148) **R. Belo Horizonte,** Belo Horizonte, MG.

149) **Mossoró R. Soc.,** Praca Rafael Fernandes 8, Mossoró, RGN.

150) **R. Cultura de Gravatai,** Rua Coronal Vicente 456, Porto Alegre.

151) **Soc. R. Dif. Vale do Itajai,** Rua 15 de Novembre 343, 2° andar, Blumenau, SC. – **D.PRGR.:** 11.00–03.00.

152) **R. Relogio Musical,** Rua Matias de Albuquerque 260, Recife, Pe. – **L.P.:** Dir.: J. Jesum de Carvalho. – **D.PRGR.:** Gives correct time every 3rd min. – **V.** by letter.

153) **R. Pres. Wenceslau,** Av. Newton Prado, Pres. Prudente, SP. – **D.PRGR.:** 09.00–02.00. – 154) **R. Espirito Santo,** Vitória, ES.

155) **R. Cariri,** Campina Grande, Paraiba.

156) **R. Dif. de Joinville,** Rua Pedro Lobo 219, Joinville, SC. – **L.P.:** Dir. Gen. & Dir. Tec.: W. Brosig. – **D.PRGR.:** 09.00–03.00.

157) **R. Educad. de Campinas,** Rua Barreto Leme 931, Campino. – **D. PRGR.:** 24 h. – 158) **R. Dif. de Mossoró,** Mossoró, RGN.

159) **R. Princésa de Jaoui,** Candelária, RGS.

160) **Prefeitura Municipal de Passo Pundo,** Passo Pundo, RGS.

161) **Chacoeiro de Itapemirim,** Cachoeiro de Itapemirim, ES.

162) **R. Soc. Ubaense,** Ubá, MG.

163) **R. Cultura,** Joinville, SC. – **D.PRGR.: German:** "Hora Cultural Alema": Sun. 11.00–12.00.

164) **R. Emis. Guarapava,** Guarapava, Paraná.

165) **Réde Paranaense de Emissoras,** Ponta Grossa, Paran..

166) **R. Sao Paulo,** Av. Angélica 430, Sao Paulo.

167) **R. Cultura do Piaui,** Teresina, Piaui.

168) **R. Cultura de Maringa,** C.P. 76, Maringa, Paraná.

169) **R. Cultura de Cuiaba,** Cuiaba, Mato Grosso.

170) **R. Dirceu de Marilia,** C.P. 730, Marilia, SP. – **D.PRGR.:** 10.00–03.00. – 171) **R. Cultura de Pelotas,** Pelotas, RGS.

172) **Delcanalle &Cia.,** Herval D'Oeste, SC.

173) **R. Diamantiense,** Diamantina, MG.

174) **R. Itajubá,** Praca Adolfo Olinto 19, Itajubá, MG.

175) **R. Cl. de Blumenau,** Blumenau, SC.

176) **R. Cultura de Monte Alto,** Monte Alto, SP.

177) **R. Guarani,** Rua Goias 36, Belo Horizonte, MG.

178) **R. Arapua,** João Pessoa, Paraiba.

179) **R. Soc. Oeste Catarinense,** Chapecó, SC.

180) **R. Guanabara,** Av. 13 de Maio, Rio de Janeiro, Guanabara. – **D. PRGR.:** 10.00–03.00. – 181) **R. Uirapuru de Fortaleza,** Fortaleza, SC.

182) **R. Continental,** Recife, Pe. – **D.PRGR.:** 09.00–03.00. – **ANN.:** "R. Continental de Recife a Emissora dos Grandes Musicais".

183) **R. Caxias do Sul,** Caxias, RGS. – **D.PRGR.:** 09.00–03.25.

184) **R. Tingua,** Piraquara, Paran..

185) **R. Sul Fluminense,** Av. Joaquim Leite 465, Parra Mansa, ER. – **D.PRGR.:** 10.00–03.00.

186) **R. América,** Rua da Consolacão 116, Sao Paulo, SP. – **ANN.:** "Sintonizam Rádio América – PRE7, 1430 kc/s, Sao Paulo".

187) **R. Imbiará de Araxá,** Araxá, MG.

188) **R. Colonial,** Panambi, RGS.

189) **R. Vera Cruz,** Rua Buenos Aires 168, Rio de Janeiro, Guanabara. – **L.P.:** Dir.: J. L. Anesi. Dir. Tec.: S. Luzes. – **D.PRGR.:** 10.00–03.00. **Arabic:** D. 22.00–22.30. **German:** Tues. 20.30–20.45. **Lithuanian:**

Wed. 23.15–23.45 (The Voice of Lithuania). **Spanish:** Tues./Thurs./Sat. 17.00–17.30. – **V.** by letter.
190) **R. Imprensa,** Campo Grande, Mato Grosso.
191) **R. Cl. de Santos,** Santos, SP.
192) **R. Caturité,** Campina Grande, Paraiba.
193) **R. Campos Dif.,** Campos, ER.
194) **R. Dif. Mearim,** Caxias, Maranhão.
195) **R. Emis. Convencão de Itu,** Itu, SP.
196) **R. Soc. Muriaé,** Muriaé, MG.
197) **R. Espinhara de Patos,** Patos, Paraiba.
198) **R. Progresso,** Novo Hamburgo, RGS.
199) **R. Arararipe,** Rua Nelson Alencar 90, Crato, Ceará.
200) **R. Dif. Matogrossense,** Av. 13 de Junho 899, Corumbá, MG.
201) **R. Piracununga,** 3, Piracununga, Sao Paulo. – **D.PRGR.:** Esperanto: Sun. 14,00–14.15. – 202) **R. Novo Horizonte,** Novo Horizonte, SP.
203) **R. Nordeste,** Nova Cruz, RGN.
204) **Soc. Emis. Minuaro,** Rio Grande, RGS.
205) **R. Chavantes,** Ipameri, Goias.
206) **R. Dif. de Amparo,** Amparo, SP.

★ CHILE ★

L.T.: GMT ÷ 4 h. – **P.L.:** Spanish. – **Po.:** 6.944.000. – **Rcvrs.:** 670.000. **E.C.:** 220/380 V., A.C., 50 c/s.

ASOCIACION DE RADIODIFUSORAS DE CHILE

ADDR.: Casilla 10476, Santiago de Chile. – **Cable:** "Archi". – **L.P.:** Pres. E. Sánchez Matte. Mgr. J. Menadier Carrasco.
STATIONS: All st's comm. exc. 72) (Cultural).
S.W.: Call letters CE are used for all zones. – **M.W.:** Call letters CA, CB, CC and CD indicate: A = No. Zone, B = Central Zone, C = So. Zone and D = Antarctic Zone. The figures indicate the frequency in kc/s minus one cipher, f. inst. CB82 = Central Zone 820 kc/s. – Abbreviations: Soc. = Sociedad, Nac. = Nacional.
Short Waves: *) inactive.

Call	kc/s	m	kW	m.w.	Name & h. of tr.
1) CE8AA	5750	52.18	0.5	570	Soc. Nac. de Agricultura: irreg.
2) CE601	6010	49.92	1.0	1270	R. Norte: 11.00–04.00
3) CE602	6020	49.83	2.0	1080	Diego Portales: 11.00–05.00
4) CE604	6045	49.63	5.0	900	R. Libertad: 11.00–04.00
5) CE607	6070	49.42	3.0	1060	Soc. Nac. de Mineria: 11.30–04.30
6) CE610	6100	49.18	1	1320	R. Calama: 11.00–04.00
1) CE611	6110	49.10	0.5	570	Soc. Nac. de Agricultura: 11.30–05.00
7) CE613	6130	48.94	1.0	1260	R. El Morro
8) CE615	6150	48.78	10.0	760	R. La Coop. Vitalicia: 11.00–04.00
9) CE619	6190	48.47	5.0	1140	Corp. Chilena Broadc.: 11.25–04.00
10) CE766	7660	39.16	1.0	1010	R. Yungay: 11.30–06.30
9) CE950	9500	31.58	5.0	1140	Corp. Chilena Broadc.
11) CE960	9600	31.25	10.0	1300	R. Pres. Balmaceda: 10.45–04.30
8) CE970	9700	30.93	10.0	760	R. La Cooperativa Vitalicia: 11.00–04.00
12) CE1174	11740	25.55	5.0	930	R. Nuevo Mundo: 11.25–04.30
13) CE1185	11850	25.32	2.5	1380	R. Cruz del Sur: 12.00–04.00
8) CE1194	11940	25.13	5.0	730	R. La Coop. Vitalicia: 11.00–04.00
5) CE1196	11960	25.08	2.5	1060	Soc. Nac. de Mineria: 11.30–04.30
1) CE1200	12000	25.00	5.0	570	Soc. Nac. de Agricultura: 11.30–04.00
5) CE1511	*15115	19.85	5.0	1060	Soc. Nac. de Mineria
9) CE1515	*15150	19.80	5.0	1140	Corp. Chilena Broadc.: 11.25–04.00
1) CE1530	15300	19.61	0.5	570	Soc. Nac. de Agricultura

Medium Waves: °=Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
1) CB57	°570	15	8) CB73	°730	10	39) CD96	960	3.0
14) CB59	590	50	8) CB76	°760	75	40) CB97	970	1
15) CC59	590	1	28) CA82	820	0.5	10) CB101	°1010	1
16) CB62	620	2	29) CB82	820	1	41) CD101	1010	1
17) CA63	630	0.25	30) CD82	820	1	42) CB103	1030	1
18) CB63	630	1	31) CB84	840	1	43) CD103	1030	10
19) CD63	630	1	32) CC84	840	0.8	5) CB106	°1060	100
20) CA64	640	0.5	33) CD84	840	1	44) CA108	1080	1
21) CB64	640	1	34) CB89	890	1	3) CC108	°1080	5
22) CC64	640	1	35) CD89	890	1	45) CA109	1090	0.25
23) CB66	660	12	4) CA90	°900	1	46) CC109	1090	1
5) CB68	°680	1	1) CB90	°900	1	47) CB111	1110	1
24) CC68	680	0.5	36) CC90	900	0.1	48) CC111	1110	0.1
25) CD69	690	1.2	12) CB93	°930	10	49) CD111	1110	1.25
26) CA70	700	0.25	37) CA96	960	0.3	9) CB114	°1140	50
27) CB70	700	1	38) CC96	960		50) CB116	1160	2
51) CC116	1160	1.5	60) CD132	1320	1	74) CC144	1440	1
52) CB118	1180	25	61) CC133	1330	0.15	75) CB146	1460	0.1
53) CB120	1200	1	62) CB134	1340	1	76) CD146	1460	0.25
54) CA121	1210	0.25	63) CD134	1340	0.15	77) CA147	1470	0.1
1) CD121	°1210	10	64) CA135	1350	0.25	72) CB147	1470	0.25
55) CB124	1250	0.25	65) CC135	1350	0.25	78) CC147	1470	0.25
56) CC125	1270	1	66) CD136	1360	1	79) CC148	1480	0.25
7) CA126	°1260	10	67) CB136	1360	0.5	80) CB150	1500	
57) CB126	1260	1	68) CD137	1370	1	81) CA152	1520	0.5
2) CA127	°1270	1	13) CB138	°1380	2.5	82) CC152	1520	0.25
58) CC127	1270	0.25	69) CA141	1410		83) CB153	1530	0.25
11) CB130	°1300	1	70) CB141	1410	1	84) CB154	1540	0.25
6) CA132	°1320	1	71) CC141	1410	1	85) CB156	1560	1
59) CB132	1320	1	72) CB143	1430	0.25	86) CC157	1570	
			73) CC143	1430	0.1			

St's 2) 15) 18) 19) 35) 41) 43) belong to 8). St. 14) and 52) belong to 3). St. 7) belongs to 9). St. 44) belongs to 5).
Short Waves:
1) CB57: Augustinas 718, Casilla 40-D, Santiago. Te.: 30001. CB90: Casilla 90, Valparaiso. Te.: 6891. CD121: Casilla 327, Los Angeles. Te.: 517 – **L.P.:** CB57: Dir.: F. Echeverria M. CB90: Mgr.: J. P. Aedo. Dir. Tec.: J. Coiro T. – **D.PRGR.:** CB57: **German Hour:** Mo.–Sat. 23.30–24.00. Sun. 03.00–04.00, 22.00–23.30 – **V.** by QSL-card. – **F.PL.:** One m.w., one s.w. tr., prgrs. in three languages.
2) Casilla 556, Antofagasta – **L.P.:** Dir. D. Torrens.
3) Casilla 111, Talca – **L.P.:** Executive Pres.: A. Hasbún A. Dir. Gen.: R. Tarud S. – **D.PRGR.:** **N.** every h. on the h. 12.00–04.00 – **ANN.:** "CC108 onda larga y CE602 onda corta, Radio Portales desde la ciudad de Talca, Chile". **F.PL.:** CB78 (75 kW) under construction.
4) Cas. 457, Antofagasta – **L.P.:** Dir. A. Cajiao.
5) CB106: Casilla 2626, Santiago – **Cable:** "Radiomineria" – **Te.:** 380631. CB68: Casilla 337, Viña del Mar – **FI.:** By advertisements – **L.P.:** CB106: Dir. Gen.: E. Sanchez. M. Dir. Prgr.: R. Rojas R. Dir. Tec.: R. Fuentes A. CB68: Mgr. L. Muñoz – **D.PRGR.:** **N.:** 11.00, 12.00, 16.45, 17.30, 01.00, 01.30, 02.30 – **N. headlines** every half hour exc. 13.30, 14.30 - **ANN.:** "Santiago de Chile - R. Soc. Nac. de Mineria" **INT.-SIG.:** Gong – **V.** by QSL-letter (Re. in E. or Sp.).
6) Casilla 1, Calama – **L.P.:** O.: P. Vergara Keller – **D.PRGR.:** **N.:** 11.00, 12.00, 16.40, 17.30, 01.00, 02.30 – **V.** by QSL-card.
7) Casilla 463, Arica – **L.P.:** Dir. & O.: C. Nieto G. Dir. Prgr. W. Gutierrez C. – **V.** by letter.
CB76: Casilla 13130, Santiago. CB73: Casilla 1627, Valparaiso. **Cable:** Vitalradio. – **FI.:** By adv. **AD.:** 15 min. per h. **L.P.:** CB76: Mgr. E. Hamilton. CB73: Exec. Pres.: C.A. Vial. Gen. Mgr.: R. Reyes B. Sub. Gen. Mgr.: V. Tischenko. – **D.PRGR.:** 11.00–04.00 on all st's. **N.:** 11.30, 12.15, 13.00, 14.00, 15.00, 16.00, 16.45, 17.15, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 24.00, 01.00, 02.00, 03.00, 03.50 – **Wrp.:** 11.30, 12.15, 16.45, 17.15, 01.00, 02.00 – **Folklore Music:** 15.40–15.55, 20.05–20.30. – **ANN.:** "La Voz de Chile para toda America". All st's transmit simultaneously: "Transmite Radio Cooperativa Vitalicia y la Primera Cadena Chilena de Emisoras" – **INT.-SIG.:** Gong with central theme of "Pomp and Circumstance" – **V.** by QSL-card and letter. 9) Casilla 244V, Santiago – **L.P.:** Dir.: A. Palma.
10) Casilla 3041, Santiago – **L.P.:** Dir.: H. Beweis – **ANN.:** "CB101 y CE766 Estaciones de Radio Yungay de la Corporacion de Radiodifusion Ltda., Santiago de Chile" – **INT.-SIG.:** First movement of the song: "Donde el Azul de la Noche encuentra el Ove del Dia" – **V.** by letter.
11) Nueva York 53, piso 7°, Santiago – **L.P.:** Dir.: E. del Solar. **INT.-SIG.:** Gong with notes from "Los Copihues Rojos". **V.** by QSL-card.
12) Casilla 9255, Santiago – **L.P.:** Mgr.: J. Raggio.
13) Casilla 3126, Santiago – **L.P.:** Mgr.: M. Parada – **D.PRGR.:** **German Hour:** 00.00.
Medium Waves:
14) **R. Diego Portales,** Augustinas 1022, Office 1021, Santiago – **L.P.:** Dir. R. Tarud. – 15) **R. Condor,** Casilla 486, Concepcion. – **D.PRGR.:** 11.00–04.00. – 16) **R. La Reina,** Nueva York 25, Santiago – **L.P.:** Dir. G. Camus. – 17) **R. Esmeraldas,** Casilla 209, Iquique.
18) **R. Pres. Prieto,** Edwards 382, Valparaiso.
19) **R. Sur,** Casilla 60-D, Valdivia – **D.PRGR.:** 11.00–04.00.
20) **R. Norte Verde,** Casilla 252, Ovalla – **L.P.:** Dir. F. Morales.
21) **R. Andrés Bello,** MacIver 142, Santiago – **L.P.:** Mgr. J. Brown.
22) **R. El Sur,** Casilla 482, Concepcion – **L.P.:** Dir.: J. Valenzuela.
23) **R. Chilena,** Casilla 10277, Santiago – **L.P.:** Dir.: R. Vergara – **D.PRGR.:** **German Hour:** D. 17.00–18.00, 21.00–22.00.
24) **R. Lautaro,** Casilla 214, Talca – 25) **R. La Frontera,** Casilla 516, Temuco –
26) **R. Coya,** Maria Elena, Antofagasta or Casilla 13260, Santiago.
27) **R. Santiago,** Casilla 10195, Santiago – **L.P.:** Dir.: R. Vergara – **D.PRGR.:** **German Hour:** 17.35–18.00.
28) **R. Del Salitre,** Casilla 7–D, Iquique.
29) **R. Del Pacifico,** Casilla 3591, Santiago – **L.P.:** Dir.: R. Vivado & J. Quintero – **D.PRGR.:** 24 h.
30) **R. Concordia,** Casilla 119, La Union – **L.P.:** Dir.: C. Figueros.

31) **R. Recreo,** Casilla 596, Viña del Mar. – **L.P.:** Mgr.: E. Godoy Donoso. Dir. Tec.: J. C. Tribuzio. – **D.PRGR.:** 12.00–04.00.
32) **R. Almirante Latorre,** Casilla 358, Talchahuaño.
33) **R. Sago,** Casilla 35–0, Osorno. **Cable:** Radiosago. **FI.:** – By adv. **L.P.:** Mgr.: J. Kemp M. Dir. Tec.: A. Coronel W. – **D.PRGR.:** 11.30–04.00. – **F.PL.:** 10 kW March 1961.
34) **R. Bulnes,** Casilla 1555, Santiago. **L.P.:** Dir.: C. Briceño.
35) **R. Polar,** Casilla 599, Punta Arenas. – **D.PRGR.:** 11.30–04.00. V. by letter.
36) **R. El Roble,** Casilla 37, Parral – 37) **R. Riquelme,** Casilla 92, Coquimbo.
38) **R. Condell,** Youngay 10, Curico. – **L.P.:** Dir.: A. Cuerra.
39) **R. Camilo Henriquez,** Casillia 28-A, Valdivia. – **L.P.:** Dir. E. Mujica.
40) **R. Prat,** Casilla 4042, Santiago – **L.P.:** Dir.: P. Valenzuela.
41) **R. Llanquihue,** Casilla 356, Puerto Montt. – **D. PRGR.:** 11.00–04.00.
42) **R. Caupolican,** Casilla 506, Valparaiso. **L.P.:** Dir.: L. D'Ambra.
43) **R. Cautin,** Casilla 169, Temuco. – **D.PRGR.:** 11.00–04.00.
44) **R. La Serena,** Casilla 118, La Serena.
45) **R. Toco,** Maria Elena 363, Tocopilla.
46) **R. Rancagua,** Casilla 8-D, Rancagua. – **L.P.:** Dir.: J. Romero.
47) **R. Viña del Mar,** Casilla 534, Viña del Mar. – **L.P.:** Dir.: J. Venegas. – 48) **R. Centenario,** Casilla 18, San Javier. – **L.P.:** Dir.: M. Gaete.
49) **R. Austral,** Casilla 40-D, Punta Arenas. – **L.P.:** Dir. :V. Turina.
50) **R. José Miguel Carrera,** Tenderini 115, piso 9, Santiago.
51) **R. Simon Bolivar,** Cas. 318, Concepcion. – **L.P.:** Dir.: A. Jaen.
52) **R. Cristobal Colon,** Cas. 89-V, Valparaiso. – **L.P.:** Dir.: N. Tarud M.
53) **R. Universidad Tecnica del Estado,** Fanor Velasco 43, Santiago. – **L.P.:** Dir.: M. T. Femenias. – 54) **R. Atacama,** Casilla 48, Copiapo.
55) **R. Valparaiso,** Casilla 1096, Valparaiso. – **L.P.:** Dir.: H. Arellano.
56) **R. Lircay,** Casilla 450, Talca. –57) **R. Nacional,** Casilla 9987, Santiago. – 58) **R. Nuble,** Casilla 21–B, Chillan. – 59) **R. Porteña,** Casilla 887, Valparaiso. –
60) **R. Baquedano,** Casilla 758, Valdavia. – **L.P.:** Gen. Mgr.: C. Cockbeine. – **D.PRGR.:** 12.00–18.30, 20.00–03.00. – V. by QSL-card.
61) **R. La Discusión,** Casilla 14-D, Chillan. – **L.P.:** Dir.: A. Lagos.
62) **R. Cervantes,** Casilla 4650, Santiago. – **L.P.:** Dir.: L. Leiva.
63) **R. Malleco,** Casilla 204, Victoria. – **L.P.:** Dir.: G. Servanti.
64) **R. Pampa,** Edif. F.F.C.C., Of Pedro de Valdivia, Antofagasta.
65) **R. Minerva,** Ca. Galco 422, Rancagua. – **L.P.:** Dir.: L. Martinez.
66) **La Voz del Sur,** Casilla 599, Punta Arenas. – **D.PRGR.:** 11.30–04.00. V. by letter.
67) **R. Panamericana,** Cas. 13688, Correro 15, Santiago. – **L.P.:** Dir.: E. Mujica. – 68) **R. Pudeto,** Cas. 404, Ancud. – **L.P.:** Dir.: R. Gomez.
69) **R. Araucania,** Cas. 462, Concepcion. – **L.P.:** Dir.: R. Arjona.
70) **R. El Loa,** Cas. 439, Antofagasta. – **L.P.:** Dir.: J. A. Garcia A.
71) **R. Chacabuco,** Cas. 252, Quillota. – **L.P.:** Dir.: S. Giraldo.
72) **R. Universidad Santa Maria,** Casilla 110-V, Valparaiso. – **L.P.:** Dir. Gen.: C. Cerutti. Dir. Tec.: G. Feick. **D.PRGR.:** 01.00–02.30.
73) **R. Independencia,** Cas. 132, Molina. **L.P.:** Dir.: R. Jara G. **D. PRGR.:** 11.00–06.00. V. by QSL-card. – 74) **R. El Cobre,** Cas. 21, Rancagua.
75) **R. Magallanes,** Cas. 13940, Correo 15, Santiago. **L.P.:** Dir. A. Benedicto. – 76) **R. Arauco,** Cas. 6, Angol. – **L.P.:** Dir.: J. Abasolo.
77) **R. Estrella del Norte,** Casilla 13, Vallenar. – **L.P.:** Dir.: L. Morales.
78) **R. Maule,** Casilla 196, Cauquenes. – **L.P.:** Dir.: H. Cuadra.
79) **R. Manuel Rodriguez,** Casilla 147, San Fernando.
80) **R. Sudamerica,** Goycoola 0117, La Cisterna, Santiago.
81) **R. Patrio Lynch,** Vivar 489, Iquique. – **L.P.:** Dir.: L. Roldán.
82) **R. Soberania,** Casilla 11-D, Linares. – **L.P.:** Dir.: R. Abasolo.
83) **R. Aconcagua,** Casilla 100, San Felipe. – **L.P.:** Dir.: R. Grenz.
84) **R. Cronos,** Plaza Bulnes 79, Santiago. – **L.P.:** Dir.: C. Pacheco.
85) **R. Sargento Aldea,** Cas. 38, San Antonio. – **L.P.:** Dir.: R. Filipi.
86) **R. El Carbón,** Casilla 66, Lota. – **L.P.:** Dir.: N. Mosciatti.

R. MILITAR AUSTRAL (Military)
ADDR.: Punta Arenas. **Station:** CD125 1250 kc/s 240 m 0.5 kW. S.W. CE920 9200 kc/s 32.61 m 0.5 kW. – **D.PRGR.:** 00.00–03.30.

★ COLOMBIA ★

L.T.: GMT÷5 h. – **Pr.L.:** Spanish. – **Po.:** 15.000.000. – **Revrs.:** 3.000.000. – **E.C.:** 150/260 V., A.C., 60 c/s.

MINISTERIO DE COMUNICACIONES, DIRECCION GENERAL DE RADIOCOMUNICACIONES

ADDR.: Bogotá. – **L.P.:** Dir. Gen.: H. Chaves Navia.
STATIONS: Cultural st's 1), 2), 5), 16), 80), 105), 112), 127), 128), 129), 132), 133), Other st's commercial.

Short Waves: Call: HJ---. *=inactive.

	Call	kc/s	m	kw	m.w.	Name & h. of tr.
1)	GO	3250	92.31	10	800	R. Sutatenza: 10.45–14.00, 19.00–03.10
2)	GJ	4755	63.10	2.5	1540	Reina de Colombia
3)	EF	4765	63.95	3	1210	R.dif. Occidente: 10.45–04.35
4)	FU	*4795	62.54	1	1250	La Voz del Comercio[1])
5)	AU	4805	62.42	0.4	1410	Universidad Antioquia
6)	HC	4825	62.25	1	1350	R. Narino[1]) 12.00–04.00
7)	KE	4835	62.05	1	920	R. Continental[2]) 13.00–04.00
8)	GF	4845	61.92	1	1130	R. Bucaramanga 11.00–04.00
9)	FN	4855	61.79	1	1240	R. Neiva[3]) 11.00–04.35
10)	FA	4865	61.66	1	1330	La Voz de Pereira[1]) 12.30–04.00
11)	BG	*4875	61.54	1	1350	La Voz del Norte
12)	CH	*4895	61.29	5	890	La Voz de la Victor
13)	AG	4905	61.16	1	1050	Emisora Atlantico 11.30–04.00
14)	LF	4935	60.81	1	1440	Ondas de Ibaque[1]) 11.00–04.00
15)	CW	4945	60.66	1	1160	Emisora Suramerica 11.00–05.00
16)	CQ	*4955	60.54	10	580	R. Televisora Nacional
17)	CV	4985	60.18		560	Transmis. Independencia
18)	FW	5020	59.76	1	1050	Transmis. Caldas[1]) 11.00–05.00
19)	DW	5050	59.41	1	980	La Voz de Medellin[1]) 11.00–05.00
1)	GC	5075	59.13	25	800	R. Sutatenza: as 3250
1)	GG	5095	58.88	50	800	R. Sutatenza: as 3250
20)	CF	5960	50.34	1	870	La Voz de Bogotá[2]) 11.00–05.00
21)	LY	*5980	50.16	10	910	R. Sinfonia
17)	GW	5985	50.13		560	Transmis. Independencia
22)	FC	*6010	49.92	2.5	1080	La Voz de Armenia[2]
23)	FK	6010	49.92	10	1230	La Voz Amiga 11.00–04.00
24)	CX	6020	49.83	10	710	La Voz de Colombia 11.00–13.00, 17.00–19.00, 23.00–04.00
25)	LB	6040	49.67	10	950	La Voz del Tolima[2]) 12.00–04.00
26)	EX	6054	49.55	5	1030	R. Pacifico[1]) 11.00–04.30
1)	GT	6075	49.38	10	800	R. Sutatenza: as 3250
27)	DM	6105	49.14	1	880	R. Vision[2]) 11.00–05.00
28)	NE	6115	49.06	1	990	E. Rl Sol[2]) 11.00–05.00
29)	EV	6135	48.90	1	1150	La Voz del Valle 12.00–05.00
30)	EQ	6145	48.82	1	1380	La Voz de Cauca[1]) 11.30–04.00
31)	KJ	6160	48.70	5	600	Nueva Granada[1]) 11.00–05.00
16)	CT	6185	48.50	10	580	R. Televisora Nacional 12.00–05.00
32)	EZ	6195	48.43	1	900	La Voz de Cali[2]) 11.00–05.00

Medium Waves: Call: HJ---. °=Short Waves. *=also FM.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
17)	GS	°560	10*	57)	EO	1090[1]	10	95)	DS	1350	1*
16)	KA	°580	100*	58)	BC	1090[3]	10*	11)	BF	°1350	1
31)	KL	°600[1]	25*	59)	CN	1100[3]	5*	6)	HA	°1350[1]	1
16)	HF	610	20*	60)	FQ	1100[2]	5*	96)	FH	1360[1]	1
33)	FD	620[2]	20*	61)	EW	1110[3]	1*	97)	FR	1360[1]	1
34)	KH	640	10	62)	AC	1110[2]	1	98)	KX	1370[1]	1*
35)	AQ	660[4]	10*	63)	DC	1120	10*	99)	EN	1370	1
16)	HG	680	50*	64)	JC	1130[2]	1	100)	BO	1370	1*
16)	HI	700	10	8)	GE	°1130	10*	101)	GH	1380[3]	1*
24)	CZ	°710	10*	65)	CL	1140[2]	2	30)	EA	°1380[1]	1
36)	AN	730[5]	10*	1)	GJ	1150	1	102)	AS	1390	0.75
37)	CU	740	10*	66)	DL	1150[1]	1*	103)	FO	1400	1
38)	AJ	750[4]	10	29)	EB	°1150	1	104)	JA	1400[3]	*
39)	DK	770[3]	50*	15)	CO	°1160[1]	1*	105)	KM	1400	0.25
40)	HB	780[2]	10*	67)	FI	1160[3]	1	106)	EI	1410[2]	1
16)	HJ	790	100	68)	GN	1160[1]	5*	107)	BH	1410[1]	1
1)	CY	°800	10*	69)	FX	1170[3]	1*	108)	FS	1410[1]	2
41)	ED	820[3]	50*	70)	BJ	1170[3]	1	5)	DU	°1410	0.5*
42)	KC	840[3]	50*	71)	JE	1180[2]	1	109)	BD	1420[2]	1
43)	EP	850[1]	10*	72)	CD	1180	1	110)	LG	1430[2]	1
20)	CE	°870[2]	10*	73)	GK	1180[1]	10*	111)	EK	1430	1
27)	DM	°880[2]	10*	74)	DT	1190	1*	112)	KU	1430	0.25
12)	CI	°890	10*	75)	AV	1200[1]	2	14)	FL	°1440[1]	1
32)	EY	°900[2]	10*	76)	CV	1200	1*	113)	BZ	1440	1
21)	DO	°910	25*	77)	BE	1210[1]	1	114)	EG	1450	0.75
7)	CS	°920[2]	10*	3)	EM	°1210	5	115)	GM	1450[1]	1
44)	AF	930[5]	10	78)	KR	1220	1*	116)	AL	1460[1]	1*
45)	GB	940	10*	23)	FF	°1230	10*	117)	EJ	1460[2]	1
25)	LA	°950[2]	10*	9)	FP	°1240[3]	1	118)	FZ	1460	1
16)	HK	960	10*	79)	KW	1240	1*	119)	FC	1470	1*
46)	FN	970[3]	10*	80)	DI	1240	9*	120)	BK	1470[1]	1*
19)	DB	°980[1]	10*	4)	FG	°1250[1]	5*	121)	DH	1480[2]	1
28)	ES	°990[3]	10*	81)	AO	1260[5]	1*	122)	BP	1480	1
47)	AI	1010	5*	82)	KN	1260	2*	123)	CL	1480[2]	1
48)	DQ	1010[2]	1*	83)	FT	1270[3]	1*	124)	LE	1490[2]	1
49)	CC	1020	1*	84)	AR	1280[4]	5	125)	ET	1510	1
26)	ER	°1030[1]	10*	85)	DA	1280[1]	1*	126)	JB	1520[1]	1*
50)	CJ	1040[1]	1*	86)	CK	1290	1*	127)	BA	1530	1*
51)	DR	1040	1*	87)	EC	1300	1	2)	GD	°1540	0.35
13)	AH	°1050	1	88)	BK	1300[3]	2	128)	DN	1540	0.15
18)	FJ	°1050[1]	1*	89)	IA	1310[1]	1	129)	CP	1550	1
52)	AZ	1060[5]	1	90)	AK	1310	2.5	130)	GA	1560[1]	1
53)	CG	1070	10*	91)	LD	1310[2]	1	131)	EM	1560	1
54)	JF	1070[2]	5*	92)	AD	1330[5]	1	132)	NR	1570	0.25
55)	DZ	1070[3]	1*	10)	FE	°1330[1]	5*	1)	GP	°1580	1
22)	FM	°1080[2]	10*	93)	GU	1340[1]	1*	133)	KP	1580	0.15
56)	AT	1080[3]	1*	94)	KY	1350[3]	1*				

[1]) belongs to R. Cadena Nacional. [2]) to Ci. Todelar. [3]) to Primera Cadena Radial Colombiana (Caracol). [4]) to R. Cadena del Norte. [5]) to Circuito Radial A.B.C.

Short Waves:

1) Escuelas Radiofonicas, Apt. Aéreo 7170, Apt. Nacional 3262, Bogota. **Cable:** "Radiofonicas". **Te.:** 420543. – **L.P.:** Dir. Gen.: J. J. Salcedo G. Mgr.: Dr. F. Padilla N. Dir. Tec.: L. M. Pick. – **D.PRGR.:** 800 kc/s: 11.45–04.00. – **R. Belencito,** Boyaca 1150 kc/s: 12.00–15.00, 16.45–19.00, 22.00–03.00. – **N.:** 12.00 (W), 23.20, 01.00 (W), 03.00 (W). – **ANN.:** "Por la Fe y la Cultura, bases del verdadero progreso, transmite Radio Sutatenza, del Servicio de Radiodifusión de Acción Cultural Popular, desde Sutatenza, en Boyacá, República de Colombia". – V. by QSL-card. – 2) Chiquinquira.

3) Carrera la 16-89, Cali. – **L.P.:** Mgr.: E. Rueda S. – **ANN.:** "Transmiten desde Cali, Sultana del Valle las emisoras R.C.O. por sus emisoras 1210 kc/s onda larga, 4765 kc/s onda corta, banda internacional de los 60 metros".

4) Armenia. –5) Carrera 43 No. 47-96, Medellin.

6) Apt. Aéreo 390, Pasto. – **L.P.:** Dir.: R. Becerra. – V. by QSL-card.

7) Apt. Aéreo 53-42, Bogotá. – V. by letter.

8) Apt. Aéreo 572, Bucaramanga. – **L.P.:** Dir.: G. Sorzano. – **D.PRGR.: English:** D. 03.00–03.30. – V. by letter.

9) Ca. 7a No. 5-69, Neiva. – **L.P.:** Dir.: L. Garcia. – V. by QSL-card

10) Ca. 18 No. 8-54, Pereira. – 11) Ca. 9a No. 5-32, Cúcuta.

12) Carrera 9a No. 11-35, Bogotá. – **L.P.:** Dir.: A. Gaitan.

13) Passo Bolivar, Carrera Cuartel, Barranquilla. – V. by QSL-card.

14) Edif. Raad, Ibague. – **L.P.:** Dir.: L. E. Martinez R.

15) Carrera 9a No. 12-23, Bogotá. – V. by QSL-card.

16) Transversaal 17 No. 25-65, Bogotá. – V. by QSL-card or letter.

17) Tunja. – **L.P.:** Mgr.: L. Lopez R.

18) Apt. Aéreo 244, Manizales. **Cable:** "Transmisora". **Te.:** 5549. – **L.P.:** Dir. Gen.: I. Escobar Uribe. Dir. Tec.: J. Villegas S. – **D.PRGR.:** N.: Every half hour. – **Folklore Music:** 11.00, 16.00, 22.00. – **"Invitacion Internacional":** 04.45. – V. by QSL-letter.

19) Apt. Aéreo 1244, Medellin. **Te.:** 28642. – **D.PRGR.: Wrp.:** 12.00, 17.30, 00.00. – V. by letter.

20) Carrera 6a No. 14-88, Bogotá. – V. by letter.

21) Carrera 47 (Sucre), 53-29, Medellin. – V. by QSL-card or letter.

22) Carrera 16, Armenia. – **L.P.:** Dir.: J. M. Toro.

23) Apt. Aéreo 89, Pereira. – **L.P.:** Dir.: O. Giraldo. – V. by letter.

24) Carrera 9a No. 12-23, Bogoté. – **L.P.:** Mgr.: J. Munera L. Dir. Tec.: L. A. Rocha. **N.:** *11.30, 17.30, 24.00, 03.15.* – V. by QSL-card.

25) Apt. Aéreo 604, Ibague. – V. by QSL-card or letter.

26) Apt. Aéreo 2180, Cali. – V. by letter.

27) Apt. Aéreo 31-63, Medellin. – **L.P.:** Dir.: M. G. Lopez. Dir. Tec.: F. Morandini. – V. by letter. – **F.Pl.:** FM in 5 cities.

28) Carrera 9a, 10-45, Apt. Aéreo 1972, Cali. – **L.P.:** Dir.: F. Franco Garcia. – **ANN.:** "Esta es Radio El Sol, 990 kc, canal preferencial; onda corta 6115 kc, banda internacional de 49 metros, del Circuito Todelar de Colombia, Radio El Sol, de Cali, en dos frecuencias para cubrir toda la república". – V. by letter. 29) Ca. 23, No. 1–25, Cali.

30) Apt. Aéreo 535, Popayan. **Te.:** 1770. – **L.P.:** Dir.: L. Burckhardt. – V. by letter.

31) Carrera 15, No. 13-47, Bogot.. – V. by letter.

32) Apt. Aéreo 1972, Ca. 11, No. 9–20, Cali. – V. by letter.

Medium Waves:

PRIMERA CADENA RADIAL COLOMBIANA.
ADDR.: Calle 19, no. 8–48, Bogota, Te. 436 800.
L.P.: Dir. Gen.: A. Toro Montoya. Dir. Tec.: M. Fric.

33) **R. Manizales,** Apt. Aéreo 67, Manizales. – V. by letter.

34) **R. Renacimiento,** Bogot.. – **L.P.:** Mgr.: V. Nieto. – V. by letter.

35) **R. Miramar,** Apt. Aéreo 246, Cartagena. – V. by letter.

36) **Emis. Unidas,** Apt. Aéreo 154, Barranquilla. – V. by QSL-card.

37) **R. Tricolor,** Bogot.. – 38) **La Voz de Barranquilla,** Barranquilla. –.

39) **La Voz de** *Antioquia, Maracaibo 46-80, Medellin.*

40) **Ecos de Pasto,** Av. Santander 21-76, Pasto.

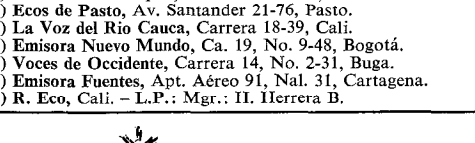
41) **La Voz del Rio Cauca,** Carrera 18-39, Cali.

42) **Emisora Nuevo Mundo,** Ca. 19, No. 9-48, Bogotá.

43) **Voces de Occidente,** Carrera 14, No. 2-31, Buga.

44) **Emisora Fuentes,** Apt. Aéreo 91, Nal. 31, Cartagena.

45) **R. Eco,** Cali. – **L.P.:** Mgr.: H. Herrera B.



Primera Cadena Radial Colombiana

8 emisoras propias, 3 de ellas con 50 kilovatios. 16 afiliadas.
Cubrimos todo el territorio colombiano y gran parte de América del Sur.
Cultura y diversión para millares de oyentes.

46) **La Voz del Cafe,** Carrera 8a No. 15–47, Pereira.

47) **R. Kalamary,** Barranquilla. – **L.P.:** Mgr.: E. Ariza.

48) **Emisora Clarida,** Av. 10 de Mayo 49-53, Medellin.

49) **Emisora Mil Veinte,** Carrera 7a No. 24–78, Bogotá.

50) **R. Progreso,** Ca. 13, No. 14–17, Bogotá.

51) **La Voz del Triunfo,** Ca. 51 (Boyaca), No. 51-31, Bogotá.

52) **La Voz del Sinu,** Monteria. – **L.P.:** Mgr.: C. A. Barrios.

53) **R. Santa Fe,** Carrera 13, No. 15-90, 8° Piso, Bogotá. **Cable:** "Radiosantafe". – **L.P.:** Mgr.: H. Bernal A. – **D.PRGR.:** 24 h.

54) **R. Musical,** Ca. 11, No. 9-20, Cali. – **L.P.:** Mgr.: B. Tobon.

55) **R. Reloj,** Ca. 53, No. 46–80, Medellin. – V. by letter.

56) **R. Reloj,** Carrera 42, No. 23–46, Barranquilla.

57) **Ondas del Valle,** Carrera 5a, No. 12-23, 3° Piso, Cartago.

58) **La Voz de Cucuta,** Av. 5a No. 10–11, Cúcuta.

59) **R. Reloj,** Ca. 19, No. 8-48, Bogotá.

60) **La Voz del Pueblo,** Carrera 8a No. 15–89, Pereira.

61) **R. Reloj,** Carrera 1a No. 18-39, Cali.

62) **Emisora Riomar,** Ca. 32, No. 42–19, Barranquilla.

63) **Ecos de la Montaña,** Ca. 53, No. 52A-42, Medellin.

64) **R. Cartago,** Carrera 4a No. 10-62, Cartago.

65) **R. Girardot,** Ca. 8a No. 10-19, 3° Piso, Girardot.

66) **R. Cristal,** Medellin – **L.P.:** Dir.: J. Zuleta F.

67) **Pregones del Quindio,** Ca. 19, No. 14-42, Armenia.

68) **R. Barrancabermaja,** Barrancabermaja.

69) **La Voz del Ruiz,** Manizales. – **L.P.:** Mgr.: F. Londono.

70) **La Voz de Santa Maria,** Santa Maria. – **L.P.:** Mgr.: J. A. Sanchez.

71) **R. Villa de Cespedes,** Tulua. – 72) **R. Nueva Epoca,** Fusagasuga.

73) **R. Santander,** Ca. 33, No. 15-20, Bucaramanga.

74) **R. Nutibara,** Edificio Alejandro Angel, Medellin. **Te.:** 14675. – **L.P.:** Dir. Gen.: J. Garcia Lobo. Dir. Tec.: H. Cárdenas. – **D.PRGR.:** 11.30–05.00. – **Folklore Music:** 12.30, 23.00. 75) **R. Cordobesa,** Monteria.

76) **R. Popular,** Carrera 9a No. 13–42, Bogotá.

77) **Ecos de Ocaña,** Ocaña. – 78) **R. Industrial,** Bogotá. – 79) **R. Modelo,** Bogotá.

80) **Pontificia Bolivariana,** Apt. Aéreo 1178, Medellin.

81) **R. Vigia,** Apt. Aéreo 154, Nal. 324, Barranquilla.

82) **Emisora Metropolitana,** Carrera 7a No. 22-79, Bogotá.

83) **Ecos del Combeima,** Ibague. – **L.P.:** Dir.: C. Raful.

84) **La Voz de** *Cartagena, Apt. Aéreo* 246, Cartagena.

85) **Emisora Siglo XX,** Carrera 51 (Bolivar), No. 59-53, Medellin.

86) **El Mundo en Bogotá,** Carrera 7a No. 17-14, 3° Piso, Bogotá.

87) **R. Libertador,** Carrera 3a No. 15–80, Cali.

88) **R. Valledupar,** Valledupar. – **L.P.:** Mgr.: C. Aristizabel.

89) **R. Villavicencio,** Ca. 5a, Carrera 6a, Villavicencio.

90) **La Voz de la Patria,** Apt. Aéreo 231, Nal. 621, Barranquilla.

91) **R. San Eugenio,** Carrera 15, No. 15-32, Santa Rosa de Cabal.

92) **R. Vigia,** Apt. Aéreo *91,* Nal. 31, Cartagena.

93) **Ondas del Fonce,** San Gil. – **L.P.:** Dir. Gen.: C. Serrano.

94) **Ondas del Puerto,** Ca. 14, No. 11-19, Girardot.

95 **La Voz de la Americas,** Carrera 51 (Bolivar), No. 51-40, Medellin.

96) **La Voz de Anserma,** Anserma. – **L.P.:** Mgr.: H. Marin V.

97) **Ondas del Huila,** Banco Comercio, Neiva.

98) **La Voz de Cundinamarca,** Bogotá. – **L.P.:** Mgr.: L. Rodriguez.

99) **R. Cultura,** Carrera 7a No. 16-42, Cali. – **L.P.:** Dir.: A. Mesa.

100) **R. Piloto,** Barranquilla. – **L.P.:** Mgr.: P. J. Cañizares.

101) **R. del Comercio,** Ca. 35, No. 12-66, Bucaramanga.

102) **Emisora Variedades,** Ca. 35, No. 35-106, Barranquilla.

103) **R. Luz,** Carrera 22, No. 16-19, Manizales.

104) **R. Buenaventura,** Ca. 5a Carrera 2a, Buenaventura.

105) **Emisora Mariana Bogotá,** Carrera 7, No. 6-10, Bogotá **Te.:** 462712. – **L.P.:** Dir. Gen.: R. P. Manuel Cadierno. Mgr. & Dir. Tec.: Dr. Pompilio Sanchez. – **D.PRGR.:** 11.00–03.00. – **English:** 12.30. – **German:** 02.00. – **F.PL.:** S.w. in 19 & 31 m. Increase of power (1 kW).

106) **Emisora Guadalajara,** Carrera 5a No. 8-53, Buga.

107) **R. Magdalena,** Ca. 7a No. 5-54, Santa Maria.

108) **Ondas del Guali,** Honda. – 109) **R. Guaimaral,** Apt. 5-54, Cúcuta.

110) **La Voz de la Dorada,** Dorada. – **L.P.:** Dir.: J. N. Ramirez S.

111) **R. Tulua,** Carrera 26, Ca. 26 y 27, Tulua.

112) **La Voz de Maria,** Bogotá. – 113) **Ondas de Riohacha,** Riohacha.

114) **R. Belalcazar,** *Ca.* 5a No. 5-81, Popayán.

115) **R. Sogamoso,** Sogamoso. – **L.P.:** Dir.: J. C. Medina S.

116) **R. Sincelejo,** Plaza Olaya Herrera, Sincelejo.

117) **Armonias del Palmar,** Ca. 29, No. 29-67 y 29-73, Palmira.

118) **La Voz del Espinal,** Espinal. – **L.P.:** Dir.: A. Useche B.

119) **R. Centinela,** Carrera 8a, Edificio Algira, Pereira.

120) **La Voz de la Gran Colombia,** Villa del Rosario.

121) **R. Quibdo,** Quibdo. – 122) **R. Pamplona,** Pamplona.

123) **R. Garzón,** Ca. 7a con Carrera 8a, Garzón.

124) **R. Armero,** Armero. – **L.P.:** Dir.: R. Andrade.

125) **R. Bolivar,** Av. 8a, No. 10-110, Cali.

126) **R. Sevilla,** Carrera 50 entre Ca. 49 y 50, Sevilla.

127) **La Voz de Pamplona,** Pamplona, N. de Santander.

128) **Liceo Departemental,** Sonson. – 129) **R. Parroquial,** Nemocón.

130) **R. Boyaca,** Apt. Nal. 96, Tunja. – V. by letter.

131) **Ondas Nacionales,** Cerrito. – 132) **R. Copacabana,** Copacabana.

133) **R. Cultural de Arbelaez,** Arbelaez.

★ ECUADOR ★

L.T.: GMT −5 h. – Pr. L.: Spanish, Quechua. – Po.: 4.000.000. – Revrs.: 170.000. – E.C.: 110 V., A.C., 60 c/s.

INSPECCION DE RADIO, Ministerio de Obras Publicas.
ADDR. 18 de Septiembre 627 y Paez, Quito. – Cable: "Radionacional". – Te.: 30640. – L.P.: Dir. Ing.: O. Placencia.

ASOCIACION ECUATORIANA DE RADIODIFUSORAS
ADDR.: Apt. 289 or Espejo 924, Quito – Cable: "ARE". – Te.: 10669
STATIONS: All st's com. exc. 49) Cultural, 74) Rel. and 88) Cultural, Rel.
Short Waves: Call: HC–––.

	Call	kc/s	m	kW	m.w.	Name & h. of tr.
1)	DR4	3355	89.42	0.25		R. Miramar
2)	MS4	3375	88.89	0.2		R. Alejo Lascano: 05.30–09.30, 00.30–04.00
3)	JP4	3385	88.63	0.1		R. Ondas Manabitas
4)	SG4	3505	85.59	0.22		La Voz del Valle
5)	NL2	3510	85.47	0.2		La Voz del Campesino
6)	KD5	3515	85.35	0.2		R. Centro Gualaco
7)	YC4	3520	85.23	0.2		R. Escuelas Radiales
8)	VP2	3525	85.11			R. Atalaya, Quevedo
9)	OT1	3545	84.63			R. Saracay
8)	VP4	3550	84.51			R. Atalaya, Manta 23.00–03.30
10)	GE1	3605	83.21	0.2		R. Ecos del Occidente
11)	EF2	3620	82.87			R. El Sagrario
12)	OS4	3630	82.64			La Voz del Carrizal
13)	GE2	3660	81.97	10	1480	R. Nac. Espejo, Guayaquil 23.00–05.00
14)	EC3	3670	81.50			R. Loja
13)	GR1	3680	81.52	0.25		R. Nac. Espejo, Otavalo
15)	HW2	3725	80.56			R. Rey
16)	JR6	3745	80.11	0.2		La Voz del Colegio Mera
17)	BC2	3760	79.79			R. Emis. San Carlos
13)	GB4	3910	76.73	1		R. Nac. Espejo, Esmeraldas
18)	PZ1	3950	75.95	0.35		La Voz de Rumichaca
19)	JJ2	3960	75.76	0.2		R. Ecos del Agro
20)	JH1	3965	75.67	0.2		R. Turismo: 11.00–13.00, 17.00–19.00, 23.00–03.00
21)	HV4	3970	75.57	0.1		La Voz del Pueblo
22)	SN6	3975	75.47	0.2	1225	R. Sira
23)	DF4	3980	75.38	0.2		La Voz de Chone
24)	JA5	3990	75.19	0.24		R. Atenas
25)	DY4	4000	75.00	0.3		R. Iris
26)	5SA	4000	75.00	0.5		La Voz de Tomebamba 11.45–04.00
27)	2HG	4450	67.40	1		R. Emis. Central: 23.30–05.00
13)	GB1	4635	64.72	10	1310	R. Nac. Espejo, Quito: 10.30–06.00
28)	AS4	4730	63.42	0.5		La Voz de los Caras 23.00–04.30
29)	LJ6	4755	63.10	0.3		La Voz de Bolivar 23.00–04.00
30)	FA4	4760	63.03	0.25		La Voz de Manabi: 01.00–03.30
31)	AK2	4765	62.96	0.5	1050	R. dif. del Ecuador: 12.00–05.00
32)	MX4	4770	62.89	0.25		R. Cenit: 13.00–04.30
33)	1MQ	4780	62.76	2	1490	R. Atahualpa: 11.00–04.30
34)	IW5	4790	62.63	0.5		R. El Mercurio 23.00–03.30
35)	RC3	4803	62.47	0.3		R. Coro Santa Cecilia
36)	SV5	4805	62.43	0.2		R. Amazonas
37)	ET2	4825	62.18	0.3	1160	R. El Telegrafo: 13.00–04.00
38)	RM3	4845	61.92	0.2		R. Cultural Municipal 00.00–04.00
39)	CV3	4850	61.86	0.3		Ondas del Zamora
40)	TF2	4885	61.41		1213	R. Vigo: 10.00–05.00 (1. prgr.)
41)	1MI	4905	61.16	0.3		La Voz de Imbabura 00.00–03.30
42)	AR1	4910	61.10	0.1		R. Montúfar
43)	IMI	4910	61.10	2	1410	R. Gran Colombia: 10.45–06.00
44)	LR5	4915	61.04	0.2		La Voz de Alausi
45)	JX6	4920	60.98	0.35		R. Cultural Religiosa
46)	MP2	4920	60.98	0.2		La Voz de la Peninsula
47)	QRX	4923	60.93	0.5	1360	R. Quito: 11.15–04.30
48)	CR1	4930	60.85	1	1430	R. Casa de la Cultura: 11.30–13.00, 17.00–19.00, 00.00–03.15
49)	GH1	4970	60.36	0.3	990	R. Tarqui 11.30–04.00
50)	JC5	4980	60.24	0.3	1200	R. Ondas Azuayas: 10.45–04.30
51)	BJ2	5005	59.94	0.5	1220	R. El Mundo: 12.00–03.00
40)	TF2	5005	59.94			R. Vigo: 20.00–05.00 (2. prgr.)
52)	RP1	5015	59.82	1	880	R. Católica: 10.30–04.30
53)	OB5	5025	59.70			R. Ondas Azules
54)	PS5	5030	59.64	0.5		R. Ondas Cañaris
55)	CU5	5035	59.58			La Voz de Azogues
56)	ER1	5040	59.52	0.2		Escuelas Radiales
57)	ED5	5045	59.46	0.25	1090	R. Roxi: 13.00–03.00
58)	RI1	5050	59.41	0.3		Centro Radiofónico de Imbabura 00.00–03.00
59)	MV5	5060	59.25	0.25		R. Popular – La Voz del Austro 11.00–04.30
60)		5782	51.90	3	1245	R. Metropolitana
61)	TR1	5960	50.34	0.35		R. Equinoccial
62)	GE5	5965	50.29	0.3	910	R. Mundial: 13.00–04.00
63)	JT1	5970	50.25	0.2		R. Tulcán
64)	MH6	5970	50.25	0.3	1535	R. Rdfnco. del Cotopaxi
65)	AH3	5985	50.13	0.3		R. El Trébol
66)	GY6	5990	50.08	0.2		R. Luz: 12.00–14.00, 17.30–19.30, 22.00–01.00, 02.00–04.00
67)	DF1	6000	50.00	0.25		La Voz del Norte 11.45–04.00
68)	EB4	6015	49.88	0.5		R. Manta: 12.00–14.00, 17.00–19.00, 23.00–04.00
69)	NF5	6020	49.83	0.36		R. Ecuador
70)	TO5	6025	49.79	0.2		R. Patria – La Voz del Civismo
71)	PT5	6029	49.76	0.3		La Voz del Perpetuo Socorro
72)	RQ2	6030	49.75	0.2		La Voz del Tropico
73)	NX3	6035	49.71	0.5		R. Cariamanga 23.00–04.00
40)	TF2	6035	49.71			R. Vigo: 20.00–05.00 (2. prgr.)
74)	JB	6050	49.59	25	700	La Voz de los Andes
75)	AC1	6060	49.50	0.75	1280	La Voz de la Democracia: 11.30–04.00
76)	EM1	6065	49.46	0.35		Ondas Carchenses
77)	DG2	6080	49.34	10	800	R. Bolivar
78)	VM6	6090	49.26	0.2		R. Once de Noviembre 11.40–04.00
79)	VC3	6105	49.14	0.75		R. Centinela del Sur
80)	XO1	6115	49.06	0.3		R. Otavalo
81)	RL2	6120	49.02			R. Quinta Piedad: Wed. 02.00–04.00
40)	TF2	6120	49.02		1213	R. Vigo: 10.00–05.00 (1. prgr.)
82)	FB2	6130	48.94	0.5	1140	R. Nac. Condor: 10.00–05.00
83)	FK5	6135	48.90	0.25		R. Cuenca 11.45–05.00
84)	OV5	6140	48.86	1		Ondas del Volante: 10.00–03.00
85)	DC2	6150	48.78	0.35	1300	R. Cenit
86)	IT4	6155	48.74	0.3		R. Costa Azul
87)	SJ1	6160	48.70	1	654	R. Javier
88)	RT6	6160	48.70	0.6	1355	R. Paz y Bien: See below
89)	PJ2	6170	48.62	0.2		R. Fluminense
90)	XX2	6185	48.50			La Voz de Vinces
91)	EH6	6195	48.43	1	1550	R. Cosmopolita: 11.30–04.00
40)	TF2	7240	41.44			R. Vigo: 20.00–05.00 (2. prgr.)
92)	JZ3	8900	33.70	0.2		R. Fenix: 00.00–03.00
93)	UM2	9550	31.41	0.3	1270	R. Universal
74)	JB	9745	30.78	1/30	700	La Voz de los Andes
8)	AU2	11765	25.50	0.4	1320	R. Atalaya: 13.00–05.00
74)	JB	11915	25.18	30	700	La Voz de los Andes
74)	JB	15115	19.85	1/30	700	La Voz de los Andes
74)	JB	17890	16.77	30	700	La Voz de los Andes
60)		19600	15.31	10	1245	R. Metropolitana

Stations reported on frequencies different from the above mentioned:
8) VP4 on 4495, 13) GE2 on 3665, GB1 on 4630, 28) on 4790, 30) on 4815, 31) on 4650, 32) on 4695, 37) on 4730, 38) on 4725, 41) on 4735, 47) on 5125, 49) on 5985, 50) on 5105, 51) on 4710, 52) on 5010, 58) on 5170, 62) on 6305, 67) on 5800, 73) on 6235, 75) on 6075, 78) on 6260, 81) on 6633, 83) on 5900, 91) on 6205 and 8) AU2 on 4600 kc/s.

Medium Waves: Call: HC–––. °=Short Waves.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
87)	SJ1	°654	0.25	112)	CW1	1040	0.3	122)	HQ6	1320	0.2
94)	CM2	665		31)	AK2	°1050	1	13)	PX1	1335	1
74)	JB	°700	30	113)	BP1	1065	0.3	88)	PB6	°1355	0.3
95)	JI5	750	0.3	114)	FD2	1080	0.2	47)	QR	°1360	1
74)	JB	760	0.5	57)	EA5	°1090	0.2	123)	BX2	1370	0.25
96)	BT4	790	0.25	13)	GB6	1100	1	124)	CR6	1380	0.2
77)	DE2	°800	10	115)	BD1	1111	0.25	125)	JN1	1385	0.3
8)	VI2	810		116)	LA2	1115	0.2	126)	CV5	1390	
97)	RJ2	830	0.3	82)	FB2	°1140	0.25	127)	FL2	1400	0.2
98)	CD1	835		117)	RK1	1142	0.25	128)	BS4	1400	
99)	AJ2	850	0.3	13)	CX5	1150	1	43)	1MJ	°1410	2
100)	EY1	855	0.2	37)	ET2	°1160	0.25	129)	MB2	1425	0.25
101)	NY2	870	0.35	118)	LR1	1180	0.25	48)	BX1	°1430	0.25
52)	RP1	°880	0.2	119)	BE2	1190	0.3	130)	SC5	1445	0.25
102)	GC2	895	0.3	50)	JE5	°1200	0.25	131)	AQ2	1450	0.2
62)	GR5	°910	0.25	120)	GU1	1210	0.25	13)	GN1	1460	1
103)	CM1	920	0.35	40)	TF2	°1213		13)	GB2	°1480	10
104)	VL2	925	0.3	51)	BJ2	°1220	0.25	33)	IMQ	°1490	2
105)	DE2	945	0.25	22)	JM6	°1225	0.2	132)	VR1	1520	0.3
106)	MC2	955	0.2	60)	FA1	°1245	0.25	64)	MH6	°1535	
107)	NC1	960	0.25	121)	RB2	1250	0.1	91)	EJ6	°1550	0.25
108)	AW2	975	0.3	93)	UM2	°1270	0.25	13)		1550	0.5
49)	GH1	°990	0.3	75)	AB1	°1280	0.25	133)	DJ1	1560	
109)	FU2	1010	0.2	85)	DC2	°1300	0.25	134)	HU2	1575	0.3
110)	LV1	1020	0.2	13)	GB1	°1310	10	135)	EG1	1590	0.5
111)	TO5	1027	0.25	8)	AU2	°1320	0.25				

St's 20), 54), 58) and 95) belong to 33).

Short Waves:
1) Bahia. –2) Ca. Bolivar 800, Jipijapa. – **V.** by QSL-card or letter.
3) Cantón 24 de Mayo, Sucre. – **L.P.:** J. N. Pinargote E.
4) Portoviejo. – **L.P.:** Dir.: R. Ayala. – 5) Naranjal.
6) Gualaceo. – **L.P.:** Dir.: H. Rodriguez. – 7) Cotacachi.
8) Rumichaca 930, Guayaquil. – 9) Sto. Domingo de los Colorados, Quito. – 10) Sto. Domingo de los Colorados, Quito. – 11) Sucre 514, Guayaquil. – 12) Calceta. – **L.P.:** Dir.: R. Navarrete.
13) **R. Nacional Espejo,** (Cadena Amarillo, Azul y Rojo del Ecuador). **ADDR.: HCGB1:** Ca. Esmeraldas 865, Quito. **Te.:** 11099. **HCGN1:** R. Reloj, Esmeraldas 865, Quito. **HCPX1:** R. Victoria, Venezuela 632, Quito. **HCCX5:** R. Nac. Espejo, Riobamba. **HCGB6:** R. Nac. Espejo, Ambato. 1550 kc/s: R. Nac. Espejo, El Puyo. – **L.P.:** Dir. Gen.: G. Brborich. Dir. Prgr.: G. Cañas. Dir. Tec.: R. Flores. – **ANN.:** "Radio Nacional Espejo la primera y mas potente emisora del pais". – **V.** by QSL-card.
14) Loja. – Dir.: V. Filiberto C. – 15) Quevedo. – 16) Ambato.
17) Marcelino Maridueña, Yaguachi. – Dir.: M. Campodónico.
18) Tulcán. – Dir.: E. Cabezas G. – 19) Quevedo. – Dir.: J. C. Jalón F.
20) Otavalo. – Dir.: J. A. Vivar. – 21) Jipijapa. – Dir.: H. Vásquez.
22) Ambato. – Dir.: J. Mancero. – 23) Chone. – Dir.: O. Castro I.
24) Cuenca. – 25) Casilla 142, Esmeraldas. – **L.P.:** Dir.: D. Alvarez T.
26) Casilla 766, Cuenca. **Te.:** 2650. – **FI.:** By adv. – **L.P.:** Dir.: H. Espinosa T. – **D. PRGR.: N.:** 12.00, 17.00, 01.45. – **Wrp.:** 15.00.
27) Malecon Eloy Alfaro y Olmedo, Bajos Hotel, Vinces. **Cable:** "Emicentral". – **FI.:** By adv. – **L.P.:** Dir. Gen.: S. Elizalde Cabello. Dir. Tec.: J. Coello. Dir. For. Rel.: H. Guerrero G. – **D. PRGR.: N.:** 01.00, 03.00. – **Folklore Music:** 00.30, 02.00, 03.30. – **DX-prgr.:** Wed., Sat. 04.00. – **ANN.:** "Esta es Emisora "Central" que emite sus programas para el exterior en su onda de 4450 kc/s desde Vinces en la República del Ecuador". – **V.** by letter. – **F.PL.:** 5 kW 1961.
28) Sucre 1922, Bahia. – 29) Cuenca. – 30) Portoviejo.
31) Av. Olmedo 111, Guayaquil. – 32) Portoviejo. – **L.P.:** as 1).
33) Apt. 3213, Quito. **Cable:** "Rahualpa". **Te.:** 12385. – **FI.:** By adv. – **L.P.:** Dir. Gen.: D. Gonzalo Maldonado. Dir. Prgr.: G. Jacome. Dir. Tec.: L. Calderon. Dir. For. Rel.: C. V. Perez. – **D. PRGR.: N.:** 11.00, 18.00, 23.00, 03.00. – **Folklore Music:** 23.15. – **ANN.:** "Esta es Radio Atahualpa, Central del Circuito HCMQ. Transmite en 1490 kilociclos, onda larga y 4780 kilociclos, onda corta, desde Quito, Capital del Ecuador". – **V.** by letter.
34) Cuenca. – 35) Asoc. Juventud Femenina, Loja. – 36) Cuenca.
37) 10 de Agosto 601, Guayaquil. – 38) Concejo Municipal, Machala.
39) 24 de Mayo, Loja. – **L.P.:** Dir.: C. M. Valarezo.
40) Guayaquil. – **D. PRGR.: Arabic:** 20.00–23.00 on 6035 and 7240 kc/s. – 41) Apt. 59, Ibarra. – **V.** by QSL-card.
42) Centro Obrero de Montúfar, San Gabriel.
43) Casilla 2246, Quito. **Te.:** 11670. – **D. PRGR.: N.:** 11.15, 03.30. – **Folklore Music:** 10.45, 00.00 (on both fq's), 19.30, 23.00 (only m.w.). – **ANN.:** "Desde Quito Relicario de Arte en América, transmiten Emisoras Gran Colombia en 1410 y 4910 kc/s". – **V.** by letter and streamer. – **F.PL.:** New m.w. tr. on 1380 kc/s.
44) Alausi. – 45) Ambato. – 46) La Libertad. – **L.P.:** Dir.: M. Pinargote P.
47) Apt. 57, Quito. Te.: 10151. – **FI.:** By adv. – **L.P.:** Dir. Gen. & Dir. Tec.: C. Villagomez. Dir. Prgr.: G. Franco. Dir. For. Rel.: E. Brito. – **D. PRGR.: N.:** 12.00, 13.15 and every h. on the h. from 17.00. **Folklore Music:** 11.15, 21.30. – **ANN.:** "Radio Quito, La Voz de la Capital... 1360 y 4923 kilociclos desde Quito, Ecuador". – **V.** by letter. – **F.PL.:** s.w. 3 kW, m.w. 5 kW.
48) Av. de Deciembre 332, Quito.
49) Plaza del Teatro, Quito. – **L.P.:** Dir.: C. Villagómez. Dir. For. Rel.: E. Brito M. – **D. PRGR.: N.:** every h. on the h. – **V.** by letter. – **F.PL.:** 5 kW m.w. & s.w.
50) Apt. 4980, Cuenca. – **L.P.:** Dir.: A. Cardozo. – **V.** by letter. – **F.PL.:** m.w. 5 kW.
51) 9 de Octubre 308, Guayaquil. – 52) Cuenca 927, Quito. – **L.P.:** Dir.: M. Rojas.
53) Cuenca. – Dir.: O. Beltrán M. – 54) Azogues. – Dir.: H. Vicuña.
55) Consejo Provincial, Azogues. – **L.P.:** Dir.: H. Castañier C.
56) Cotacachi. – 57) Teatro Roxy, Riobamba. – **L.P.:** Dir.: E. Abdo.
58) Ibarra. – 59) Cuenca. – **L.P.:** Dir.: M. Villavicencio.
60) Apt. 2850, Quito. – **L.P.:** Dir.: G. Celi R. – **D. PRGR.:** m.w.: 12.00–05.00. Reported operating 2 s.w. st's: 5782 kc/s & 19600 kc/s. – **V.** by letter.
61) Av. Mariano Acosta, Ibarra. – 62) Riobamba. – **L.P.:** Dir.: G. Encalada.
63) Tulcán. – 64) Latacunga. – **L.P.:** Dir.: C. Morán B.
65) Zaruma. – 66) Apt. 240, Ambato. – **L.P.:** Dir.: C. A. Soria.
67) Ibarra. – R.
68) Apt. 4869, Manta. – **L.P.:** Dir. Gen.: E. B. Rogiero. – **D. PRGR.: N.:** 12.30, 17.00, 23.30. **Mbg.:** 02.00. – **ANN.:** "Transmite R. Manta, con sus estaciones..., la mas antigua y potente emisora del puerto. Desde Manta, Ciudad de turismo y primer puerto maritimo en la Provincia de Manabi". – **V.** by QSL-card or letter. – **F.PL.:** 5 kW.
69) Cuenca. – Dir.: L. A. Vásquez. – 70) Riobamba. – Dir.: T. Oleas C.
71) Cuenca. – 72) Quevedo. – 73) Cariamanga.
74) **LA VOZ DE LOS ANDES**
Operated by missionary organization: The World Radio Missionary Fellowship, Inc. No commercial advertizing. Public Service and announcements of cultural activities accepted free of charge.
FI.: Supported by voluntary gifts from Evangelical Christian groups and "Share-the-cost" plan. – **ADDR.:** Casilla 691, Quito. **Cable:** "Vozandes". (USA office: Voice of the Andes, Talcottville, Connecticut). – **L.P.:** Pres.: C. W. Jones. Field Dir. and Vice-Pres.: R. C. Savage. St. Dir.: Ben Cummings. Dir. English Prgrs.: Nancy Woolnough. Dir. Russian Prgr.: J. Shalanko. Dir. German Prgrs.: H. Jantz. Dir. Swedish Prgrs.: Sonya Persson.
HOME SERVICE in Spanish: D. 10.30–04.45.
10.30–11.00 on 700, 760, 6050, 15115 kc/s
11.00–14.00 on 700, 760, 6050, 9745, 11915, 15115 kc/s
14.00–17.00 on 700, 6050, 9745 kc/s
17.00–19.00 on 700, 6050, 9745, 11915, 15115 kc/s
19.00–24.00 on 700, 6050, 9745 kc/s
00.00–02.00 on 700, 6050, 9745, 11915, 15115 kc/s
02.00–04.15 on 700, 6050 kc/s
N.: 11.00, 12.30, 17.30(W), 20.30(W), 01.30(W), 02.30 (W), 04.,00– **"Symphony Hour":** Sun. 13.00–14.00. – **Classical Concert:** D. 03.00–04.00.
FOREIGN SERVICE:

English		**kc/s**	**Beamed areas**
06.30–10.00[1])	D.	6050. 9745, 11915, 15115	So. Pacific, Eu.
14.00–15.00	D.	15115, 17890*	Americas
15.00–16.00	Sat., Sun.	15115, 17890*	Americas
19.00–20.30[2])	exc. Mo.	15115, 17890*	Europe
23.30–24.00[3])	exc. Mo.	15115, 17890*	W. Ind., Am., Eu.
02.00–05.00[4])	D.	9745, 11915, 15115	No. & So. Am.

[1]) Sun. to 09.30; "Southern Cross Salute". [2]) "Quito Calling". [3]) "Caribbean Call". [4]) "Ecuadorean Echoes".

German			
05.30–06.00	exc. Tues.	6050, 9745, 11915, 15115	Europe
15.00–16.00	Sun.	15115, 17890	Europe, Am.
21.00–21.30	exc. Mo.	15115, 17890*	Europe
23.00–23.30	exc. Mo.	15115, 17890*	Europe
Russian			
03.30–04.30	Tues.	9745, 11915	Europe
05.00–05.30	D.	6050, 9745, 11915, 15115	E. Europe
10.00–10.30	D[1])	6050, 9745, 11915, 15115	So. Pacific, Asia
10.30–11.00	D.	9745, 11915	Asia, So. Am.
16.00–17.00	Sun.	11915, 15115	Europe, Am.
20.30–21.00	exc. Mo.	15115, 17890*	Europe
22.30–23.00	exc. Mo.	15115, 17890*	Americas

[1]) Fri. in Ukrainian.

Spanish			
06.00–06.30	D.	6050, 9745, 11915, 15115	Spain, Europe
22.00–22.30	exc. Mo.	15115, 17890*	Spain, Europe
Swedish			
09.30–10.00	Sun.	6050, 9745, 11915, 15115	So. Pac., Europe
21.30–22.00	exc. Mo.	15115, 17890*	Europe

* may be replaced by 11915 kc/s.
Time Sig.: Automatically on hour and half hour. Three short tones followed by a long tone at the exact minute. – **ANN.:** E.: "This is sixty thousand watt radio station HCJB located near the line of the equator with studios in the capital city of Quito in the republic of Ecuador. We are serving our international audience on the 19, 25 and 31 meter bands. The time in Quito is... the same as... GMT. This is radio station HCJB Quito, Ecuador, South America". – **V.:** Listeners reports are wanted – these are studied by our engineers. If requested they are answered by QSL-card, in other cases by letter. – **PUB.:** Int. prgr. schedule free on request. – **F.PL.:** Equipment donated to HCJB for Television station. We are awaiting a permit from Government of Ecuador. – **PUB.:** "Call of the Andes" magazine, free to those requesting it from: HCJB, Talcotville, Conn., USA. Schedule of Spanish prgrs. Internat. prgr.sched.
75) Apt. 288, Caldas 538, Quito. – **L.P.:** Dir.: A. N. Mucarzel.
76) Tulcán. – 77) Soc. Distribuidora Ci. S.A., La Urdesa, Guayaquil.
78) Latacunga. – Dir.: V. H. Muñoz. – 79) Loja. – Dir.: F. Coronel.
80) Otavalo. – 81) T. Martinez 209, Guayaquil. – 82) Boyacá 1205, Guayaquil.
83) Cuenca. – 84) Casilla 726, Azogues. – **V.** by letter.
85) 9 de Octubre 608, Guayaquil. – **L.P.:** as 1). – 86) Portoviejo. –
87) Colegio San Gabriel, Quito. – **L.P.:** Dir.: Padre Uqarte.
88) Casilla 94, Ambato. **Te.:** 2120. – **FI.:** By adv. and gifts. – **L.P.:** Dir. Gen.: F. Bermudez. Dir. Tec.: E. Enrique Ruiz M. – **D. PRGR.:** m.w.: 12.00–03.00; s.w.: 12.00–14.00, 17.00–19.00, 22.00–03.00. – **N.:** 02.15. – **Folklore Music:** 12.15, 23.00, 02.45. – **ANN.:** "Sintonizan Radiodifusora Paz y Bien", la mensajera de Religion, Arte y Cultura, operando en banda internacional de 49 metros y en banda local de 221 mts., desde Ambato, capital de la Provincia del Tungurahua en el Ecuador". – **INT.-SIG.:** Gong. – **V.** by letter. – **F.PL.:** Increase power.
89) Babahoyo. – 90) Consejo Municipal de Vinces, Vinces.
91) P.O. Box 261, Ambato. – **V.** by letter.
92) Casilla 23, Zaruma. – **ANN.:** "R. Fenix – La Voz del Sultana del Oro". – **V.** by letter. – 93) Bolivia 715 y Noguchi, Guayaquil.

Medium Waves:
94) **Ondas del Guayas**, Malecón-Durán, Guayaquil. – Dir.: M. C. de Caballero. – 95) **R. El Prado**, Riobamba. – 96) **R. Portoviejo**, Portoviejo.
97) **R. Reloj**, Rumichaca 928 y Vélez, Guayaquil. – Dir.: R. G. Valenzuela. – 98) **R. Luz de América**, Quito. – Dir.: Dr. A. Dávila.
99) **R. Católica**, 6 de Marzo 1004, Guayaquil. – 100) **R. 24 de Mayo**, Benalcazar 5753, Quito.
101) **R. Cristal**, Guayaquil. – **L.P.**: Dir.: A. Romero.
102) **La Voz del Rio Guayas**, Av. del Ejército 116 y Piedrahita, Guayaquil. – 103) **R. Colón**, Colón 1072, Quito.
104) **La Voz Liberal**, 8 y 9 de Oct., La Libertad, Guayaquil.
105) **R. Ifesa**, Cia Industrial S.A., Guayaquil.
106) **La Voz de los Rios**, Babahoyo. – **L.P.**: Dir.: C. Baquerizo.
107) **R. Cosmopolita**, Ambato 1142, Quito. – **L.P.**: Dir.: N. Castro.
108) **Ondas del Pacifico**, Colón 234, Guayaquil. – Dir.: A. Wilmont.
109) **R. Progreso**, 10 de Agosto 970, Guayaquil. – Dir.: C. Ramirez.
110) **La Voz de la Verdad**, Plaza de Santo Domingo, Quito.
111) **La Voz del Pueblo**, Riobamba. – 112) **La Voz del Valle**, Machachi.
113) **R. Libertad**, Salvador 209, Quito. – 114) **R. Noticia**, Vélez 534, Guayaquil.
115) **R. Comercial**, Quito. – 116) **R. América**, Luque 910, Guayaquil.
117) **R. Noticiero Nacional**, Mepá 310, 3° piso, Quito.
118) **R. Central**, Maldona Villa 1 (Pasaje del Seguro), Quito.
119) **R. Excelsior**, Luque 1102 y P. Moncayo, Guayaquil.
120) **R. Atlántida**, Flores 922, Quito. – **L.P.**: Dir.: G. Ulloa.
121) **La Voz del Litoral**, Junín 206, Guayaquil. – Dir.: E. Willams.
122) **R. Continental**, "La Voz de la Sierra Ecuatoriana", Ambato.
123) **R. Casa del Cultura**, P. Moncayo 818 y 9 de Oct., Guayaquil.
124) **R. Nuevos Horizontes**, Latacunga. – **L.P.**: Dir.: J. Gándara L.
125) **R. El Tiempo**, Guayaquil 1542, Quito. – **L.P.**: as 43).
126) **R. Cuenca**, Cuenca. – 127) **R. Continental**, Colón 520, Guayaquil.
128) **R. Tropical**, Manta. – 129) **R. Guayaquil**, Lavallén 222, Guayaquil.
130) **R. Ruta**, "La Voz del Chofer", Riobamba.
131) **R. Nueva Ortiz**, Esmeraldas 1912, Guayaquil.
132) **R. Cordillera**, Esmeraldas 1712, Apt. 1003, Quito. – **L.P.**: Dir.: Ing. Villamar. – **V.** by letter.
133) **R. Panamericana**, Benalcazar 697, Quito.
134) **R. Sultana de Los Andes**, "La Voz Fraterna", P. Icaza 611 y Escobedo, Guayaquil. – **L.P.**: as 111).
135) **R. Consular**, Chile y Benalcázar, Quito. – Dir.: E. Grijalva.

★ FALKLAND ISLANDS (British) ★

L.T.: GMT÷4 h. – **Pr.L.**: English. – **Po.**: 2.260. – **Rcvrs.**: 521. – **E.C.**: 400/230 V., AC.

FALKLAND ISLANDS BROADCASTING SERVICE (Go.)
The service is designed primarily for the people of the Falkland Islands, but also the Falkland Island Dependencies, many miles to the south, where there are isolated British Bases in Grahamland, the South Shetland and South Orkney Islands. **FI.**: By license payments and adv.
ADDR.: Broadcasting Studios, Stanley. **Cable**: Broadcasts. **Te.**: 90.
L.P.: Dir.: Ch. T. Reive.
HOME SERVICE: 585 kc/s 513 m – 3958 kc/s 75.79 m – 5/0.5 kW.
W.: 22.45(Sat. 21.30)–01.00(Sat. 02.00). Sun. 21.45–01.30. Tues., Wed., Fri. also 14.00–15.00. **N.** 23.00 (BBC), 23.30.
ANN.: "This is the Falkland Islands Broadcasting Station". – **V.** by letter. Reports from So. America only.

★ GUIANA (British) ★

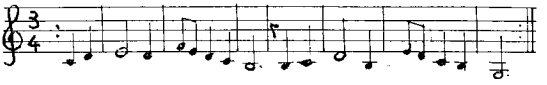
L.T.: GMT÷3¾ h. – **Pr.L.**: English. – **Po.**: 523.000. – **Rcvrs.**: 34.336.
E.C.: 110/220, 400/230 V., A.C., 50 c/s.

BRITISH GUIANA BROADCASTING CO. LTD. (Comm.)
FI.: By adv. only.
ADDR.: Broadcasting House, St. Philip's Green, Hight Street, Georgetown. **Cable**: "Broadcast". **Te.**: 2691. – **L.P.**: Mgr.: P. E. M. Hesketh. Sales Mgr.: U. A. Gouveia. Dir. Tec.: E. R. McDowell.
HOME SERVICE: ZFY R. Demerara and B.G.B.S.
560 kc/s 536 m 10 kW – 3255 kc/s 92.15 m 2 kW
760 kc/s 395 m 10 kW – 5981 kc/s 50.17 m 2 kW
BGBS: 560 kc/s: W.: 09.45–16.45, 19.45–02.15. Sun. 10.45–02.15.
ZFY: 760 kc/s: 09.15(Sun. 09.45)–02.45(Sat. 03.45). – **3255 kc/s**: 09.45–02.45(Sat. 03.45). – **5981 kc/s**: 09.15(Sun. 09.45)–19.45.
N.: ZFY: 09.50(W), 11.15(W), 16.10, 00.45. BGBS: W. 15.15, Sun. 10.50, D. 22.45. – **Rel.**: ZFY: D. 10.00, Sun. 12.45, Wed. 23.15. BGBS: D. 09.45. – **Folklore Music**: ZFY: Sun. 23.45. BGBS: Thurs. 23.15. – **Hindustani Music**: ZFY: W. 09.15, Sun. 17.15. BGBS: Mo. Wed., Sun. 21.45.
ANN.: On 560 kc/s: "This is B.G.B.S., the British Guiana Broadcasting Service". – On 760, 3255, 5981 kc/s: "This is Radio Demerara British Guiana". – **V.** by QSL-card. – **F.PL.**: s.w. frequencies to be changed to 3265 and 5980 kc/s.

★ GUIANA (French) ★

L.T.: GMT÷4 h. – **Pr.L.**: French. – **Po.**: 25.000. – **Rcvrs.**: 1000. – **E.C.**: 110 V., A.C., 50 c/s.

RADIO CAYENNE (Go.)
ADDR.: Radiodiffusion Télévision Française, Cayenne.
HOME SERVICE: 6170 kc/s 48.62 m 1 kW:
W.: 10.15–11.15, 16.45(Sat. 16.30)–17.45(Sat. 18.00), 22.30–01.00.
Sun.: 11.00–14.00, 16.30–18.00, 22.30–01.00.
ANN.: "Ici Cayenne, Radiodiffusion Télévision Française". – **INT.-SIG.**:



V. by QSL-card.

★ PARAGUAY ★

L.T.: GMT÷4 h. – **Pr.L.**: Spanish. – **Po.**: 1.700.000. – **Rcvrs.**: 105.000. – **E.C.**: 220 V., A.C., 50 c/s.

ADMINISTRACION NACIONAL DE TELECOMUNICACIONES
ADDR.: Administracion General, Casilla de Correo 84, Asunción.
Cable: "Antelco". – **L.P.**: Dept. Radiocommunication: R. V. Vierci.
STATIONS: All st's comm. exc. R. Nacional. *=inactive.
Short Waves: Call: ZP–––.

	Call	kc/s	m	kW	m.w.	Name & h. of tr.
1)	A1	5985	50.13	3	920	R. Nacional: 14.00–18.00, 22.00–04.00
2)	A10	6025	49.79	1	1300	R. Paraguay: 12.00–17.00, 21.00–04.00
3)	A6	9735	30.82	3	1360	R. Guairá: 13.00–04.00
4)	A3	*11850	25.32	1.5	1430	R. Teleco
5)	A5	11940	25.12	3	900	R. Encarnación: 14.00–02.00
6)	A7	*15210	19.72	3	730	R. Guarani

Medium Waves: Call: ZP–––. °=Short Waves.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
7)	15	560	0.25	8)	9	970	1.5	3)	6	°1360	1.5
*)		700	10	9)	11	1200	1.5	4)	3	°1430	1
6)	7	°730	3	2)	10	°1300	1.5	11)	8	1480	0.5
5)	5	°900	3	10)	20	1330	1	12)	13	1570	0.25
1)	1	°920	10	*)	under construction.						

Short Waves:
1) Cnel. Martinez 224, Asunción. – **L.P.**: Dir. Gen.: A. Cáceres Almada. Dir. Tec.: P. Pereira. – **D.PRGR.**: ZP1: 12.00–18.00, 21.00–03.00 – **V.** by QSL-card.
2) Av. Dr. Caspar R. de Francia 123, Asunción. – **L.P.**: Dir. Gen.: G. H. Mora. Dir. Tec.: P. Pereira. – **D.PRGR.**: ZP10: 11.00–03.00. – **V.** by QSL-card. R.p.
3) Villarrica. – **D. PRGR.**: ZP6: 13.30–16.30, 21.45–01.00.
4) Av. Gral. Artigas y Bañado, Asunción. – **L.P.**: Dir. Gen.: J. A. Recalde. – **D.PRGR.**: ZP3: 09.00–03.00.
5) Encarnación. – **D.PRGR.**: ZP5: 11.00–03.00.
6) Independencia Nacional 603, Asunción. – **Te.**: 6393.
D.PRGR.: ZP7: 10.00–03.00. – **V.** by letter.
Medium Waves:
7) **La Voz del Amambay**, Pedro Juan Caballero. – **D.PRGR.**: 10.30–11.30, 14.00–17.00, 22.00–01.00.
8) **R. Comuneros**, Estados Unidas y 9a, Asunción. – **D.PRGR.**: 09.00–03.00.
9) **R. Charitas**, L. A. de Herrera 124–140, Asunción. – **D.PRGR.**: 11.00–18.00, 20.00–03.00.
10) **R. dif. Mariscal López**, 14 de Julio y J. E. O'Leary. **L.P.**: O: A. González. Dir.: J. M. Chamorro Damus. **D.PRGR.**: 10.00–03.00.
11) **R. Ipir**, Concepción. – **D.PRGR.**: 11.00–17.00, 21.30–02.00.
12) **R. Central**, San Lorenzo. – **D.PRGR.**: 11.00–17.00, 20.00–02.00.

★ PERU ★

L.T.: GMT÷5 h. – **Pr. L.**: Spanish. – **Po.**: 9.923.000. – **Rcvrs.**: 1.100.000. – **E.C.**: 220 V., A.C., 60 c/s.

NATIONAL ASSOCIATION OF BROADCASTING STATIONS IN PERU
ADDR.: Av. Tacna 543, Of. 95, Lima. – **Te.**: 37270.
STATIONS: All st's comm. exc. 19), 26), 38), 65) (Go.), 6), 38) (Cul.)
Short Waves: *inactive. [2]) 854/1120 kc/s. [3]) Sat. 06.00.

	Call	kc/s	m	kW	m.w.	Name	H. of tr.
1)	OBX4V	3240	92.59	0.5	1010	R. América	13.00–05.00[3]
2)	OAX6E	3290	91.19	0.3	1370	R. Continental	
3)	OBX4Y	3300	90.91	0.35	1370	R. Junín	
4)	OAX1M	3330	90.09	0.5	890	R. Progreso	
5)	OAX5J	3350	89.55	0.3	730	R. Independencia	

	Call	kc/s	m	kW	m.w.	Name	H. of tr.
6)	OAX7O	3960	75.76	0.75		R. Madre de Dios	23.30–02.00
7)	OAX2G	4770	62.89	0.3	1370	R. Cajamarca	
8)	OCX4B	4850	61.86	0.5d	1400	R. Callao	11.00–06.30
9)	OCX4T	4870	61.60	0.5		R. Cultural	
10)	OCX4E	4880	61.48	0.75	1160	R. 1160	12.00–05.00
11)	OAX2H	4910	61.10		1080	R. Popular	
12)	OAX5O	*5010*	59.88	*1*	*620*	R. *Pisco*	
13)	OAX7Z	5015	59.82	0.25	1300	R. Juliaca	
14)	OAX5R	5020	59.76	0.15		R. Cultural,	
15)	OAX7Q	5025	59.70			R. Quillabamba	
16)	OAX4P	5955	50.38	0.25	1470	R. Huancayo	
17)	OAX7L	5960	50.34	1d	1030	La Voz del Altiplano	22.00–05.00
18)	OBX4M	5980	50.17	5	960	R. Panamericana	12.00–06.00
19)	OAX1W	*5990	50.08		1160	R. Nacional, Tumbes	
1)	OAX4V	6010	49.92	0.5	1010	R. América	13.00–05.00[3]
20)	OAX4Q	6020	49.83	1	780	R. Victoria	12.30–05.00
19)	OAX8B	6028	49.77		1030	R. Nacional, Iquitos	
21)	OAX6B	6035	49.71	0.15	1400	R. Landa	13.00–05.00
22)	OAX6A	6042	49.65	0.25		R. Arequipa	23.00–04.00
23)	OAX2A	6057	49.53	0.25	1400	R. Trujillo	23.00–04.30
24)	OAX8L	6062	49.49			R. Teselar	
25)	OAX4S	*6070	49.42	0.3	1030	Onda Popular	
19)	OAX4Z	6082	49.33	40	[2]	R. Nacional, Lima	11.45–05.00
26)	OAX4H	6095	49.22	1	1080	R. Mundial	12.30–05.00
19)	OAX6F	6105	49.14		1080	R. Nacional, Tacna	
27)	OBX4Z	6115	49.06	1	590	R. Luz	12.00–05.00
28)	OAX7A	6128	48.96	2.5	1470	R. Cuzco	23.00–05.00
29)	OCX4M	6135	48.90		1490	R. Pasco	
30)	OAX9B	6140	48.86	0.25		R. Cultural,	
32)	OBX4G	6153	48.74	5	1360	R. Excelsior	12.00–06.00
33)	OCX4G	6160	48.70	1	1580	R. Mundo	
34)	OAX7C	6175	48.58	0.3	1200	R. Tahuantinsuyo	
35)	OAX4G	6190	48.47	0.5	1200	R. Lima	12.00–07.00
36)	OAX1B	6198	48.40	0.3		R. Piura	12.00–04.30
37)	OBX4P	6300	47.62	2	1250	R. Miraflores	12.00–05.30
38)		6330	47.39		1510	R. Universidad	
19)		**6700*	44.78	*1*		R. *Nacional, Chiclayo*	
31)	OAX1A	6700	44.78	0.25	1520	R. Délcar	23.00–06.00
19)	OAX8C	9335	32.14	0.3	1030	R. Nacional, Iquitos	
40)	OAX4J	9345	32.10	0.25	1320	R. La Crónica	11.00–06.30
19)	OAX6L	9350	32.08		1080	R. Nacional, Tacna	
1)	OAX4W	9452	31.76	0.5	1010	R. América	13.00–05.00[3]
39)	OAX6H	9490	31.61	0.1		R. Tacna	12.00–04.00
41)	OAX8E	9520	31.51	2	1380	R. Loreto	11.00–05.00
42)	OAX4K	9540	31.45	0.3	930	R. Central	12.00–06.00
19)	OAX1Z	9550	31.41		1160	R. Nacional, Tumbes	
19)	OAX4R	9562	31.37	40	[2]	R. Nacional, Lima	11.45–05.00
43)	OBX4K	*9585	31.30	0.3	1130	R. Selecta	
44)	OAX5C	9590	31.28	0.2	1270	R. Ica	11.00–04.00
45)	OAX8K	9625	31.17	1	1490	R. Atlántida	11.00–05.00
46)	OCX4K	9635	31.14	1	985	R. Metropolitana	
47)	OCX4W	9675	31.01		1470	R. Inca	11.00–06.00
19)	OBX4R	*11914	25.18	40	[2]	R. Nacional, Lima	
19)	OAX4T	15150	19.80	10	[2]	R. Nacional, Lima	11.45–05.00
19)	OBX4T	*21600	13.89	40	[2]	R. Nacional, Lima	

Medium Waves: ° = Short Waves.

	Call	kc/s	kW
48)	OCX4S	580	0.15
27)	OBX4L	°590	1
12)	OAX5P	°620	1
49)	OAX3E	690	
5)	OAX5E	°730	1
50)	OAX1Y	750	0.25
51)	OBX4S	750	1
20)	OAX4X	°780	10
52)	OAX2J	820	1
53)	OAX4O	820	10
54)	OAX6I	820	
19)	OAX4A	°854	20
4)	OAX1D	°890	0.5
42)	OAX4E	°930	10
18)	OAX4D	°960	10
46)	OBX4J	°985	5
1)	OAX4U	°1010	10
25)	OBX4O	°1030	1.5
19)	OAX8A	°1030	1
17)	OAX7N	°1030	0.5
11)	OAX2F	°1080	
26)	OAX4F	°1080	1
19)	OAX6D	°1080	1
55)	OAX7S	1080	0.8
19)	OBX4A	°1120	15
43)	OAX4N	°1130	1
56)	OAX7H	1130	0.5
10)	OAX4C	°1160	5
19)	OAX1K	°1160	1
57)	OAX2C	1160	0.3
58)	OAX3B	1160	0.5
34)	OAX7B	°1200	0.3
35)	OAX4B	°1200	1
37)	OAX4L	°1250	5
44)	OAX5B	°1270	0.2
59)	OAX4M	1300	1.5
13)	OAX7X	°1300	0.3
40)	OAX4I	°1320	10
60)	OAX6K	1320	0.3
61)	OAX1E	1340	1
62)	OAX5D	1340	0.3
32)	OAX4Y	°1360	5
63)	OAX7R	1360	0.35
2)	OAX6C	°1370	0.25
7)	OAX2D	°1370	0.5
3)	OBX4B	°1370	1
41)	OAX8D	°1380	0.2
23)	OAX2B	°1400	0.25
8)	OBX4W	°1400	1
21)	OAX6J	°1400	0.3
64)	OBX5B	1430	1
65)	OBX4I	1435	0.5
66)	OAX1V	1460	1
67)	OAX3C	1460	0.5
68)	OAX5K	1460	1
16)	OAX4V	°1470	
28)	OAX7G	°1470	0.15
47)	OBX4E	°1470	1
69)	OAX5L	*1490*	
70)	OAX5N	1490	0.3
45)	OAX8J	°1490	1
29)	OCX4P	°1490	
38)	OAX6M	°1510	
71)	OCX4J	1510	0.1
31)	OAX1C	°1520	0.15
72)	OAX8D	1520	0.5
73)	OBX4D	1520	0.5
74)	OBX4N	1540	0.3
33)	OCX4F	°1580	1
75)	OAX8M	1590	0.5

Short Waves:

1) Cia Peruana, esquina de Montero Rosas y Mariano Carranza, Lima. – **ANN.:** "La Voz del Nuevo Mundo, desde Lima".

2) 3° Piso Teatro Municipal, Arequipa. – **L.P.:** Dir.: J. A. Umbert F. – **ANN.:** "Emisoras de R. Continental desde Arequipa".

3) Jirón Callao 120, Huancayo.

4) Ca. de Huánuco 484–470, Piura. – 5) Ca. Chiclayo 268, Ica.

6) Puerto Maldonado. – **L.P.:** Dir. Gen.: J. Barriales. Dir. Tec.: T. Guerrero. – **D.PRGR.:** N.: 00.15. – **Folklore Music:** 23.45. – **ANN.:** "Emisora R. Madre de Dios en Maldonado, Emisora Cultural al servicio de la Iglesia Católica". – **V.** by letter. – **F.PL.:** Prog's in Quechua. – 7) Cadena Nacional S.A., Cajamarca.

8) Colón 260, Callao. **Te.:** 91000. – **L.P.:** Dir. Gen.: J. A. Cáceres. Dir. Tec.: J. Lastarria. – **D.PRGR.:** N.: Every half h. – **ANN.:** "OCX4B – 4850 kc/s – Trasmite Radio Callao – La Voz del primer puerto del Perú" – **V.** by letter. – 9) Huancayo.

10) Casilla 2355, Lima. – **L.P.:** Dir. Tec.: J. Seminario. – **ANN.:** "Radio Once Sesenta, la primera emisora dedicada a la mujer".

11) Trujillo. – 12) Pisco (or Huayna Cápac 1345, Lima).

13) Juliaca. – 14) Ayacucho. – 15) Quillabamba.

16) Av. Giráldez 368, Huancayo. – **L.P.:** Dir. Gen.: A. Elejalde G

17) Ca. Lima 700, Puno. – **L.P.:** Dir. Gen.: J. Z. Gonzales. Dir. Tec.: R. Laso V. – **D.PRGR.:** N.: 23.00, 00.00, 02.30. – **Wrp.:** 02.30. Sun. 23.00. – **Folklore Music:** 22.30, 02.00. Sat. 04.00. – **Mbg.:** 04.00 (Fri.), 02.00 (Mo., Sun.). – **Prgr. to Argentina, Bolivia, Chile:** Fri. 04.00–05.00 on 5960 kc/s. – **INT.-SIG.: Home Sce.:** "Cerrito de Huacsapata". – **Foreign Sce.:** "Swedish Rhapsody". – **V.** by QSL-card.

18) *Casilla* 4392, *Lima.* – **L.P.:** *Dir.:* H. Delgado Parker. *Dir. Tec.:* M. Flores. – **ANN.:** "Sabe quién trasmite? Radio Panamericana" or "Panamericana, ciudad de Lima". – **V.** by letter.

19) Av. P. Thouars 441, Lima. – **L.P.:** Dir. Gen.: J. Vargas Prada. Dir. Tec.: R. Raggio. – **D.PRGR.:** Lima st's: D. 11.45–05.00. – **Regional st's** (Chiclayo, Iquitos, Tacna, Tumbes): D. 12.00–14.00, 16.00–19.00, 23.00–05.00. – N.: 12.00 and from 14.00–01.00 every h. on the h., 02.30, 03.00, 04.00, 04.55. – **Mbg.:** "Estafeta de Radio Nacional del Perú": 02.35 (Tues., Fri.). – **International Sce. on 15150 kc/s: To Europe:** 21.00–22.00 (Mo., Wed., Fri.); English 21.00, French 21.15, German 21.30, Spanish 21.45. – **To Far East:** 22.00–22.30 (Tues.); Japanese 22.00, English 22.15. – **To No. America:** 02.00–02.30 (Fri.); English 02.00, Spanish 02.15. – **ANN.:** "Radio Nacional del Perú, la primera emisora del Pais. – **V.** by QSL-card.

20) Emp. Radiodif. "Victoria", Bajos "Cabaña", Lima. – **INT.-SIG.:** First movements of Beethoven's 5th Symphony.

21) Sucre 409, Arequipa. – **V.** by QSL-card. – 22) Palacio Viejo 106, Arequipa.

23) Almagro 349, Trujillo. – **L.P.:** Dir.: J. D. Montoya. – **ANN.:** "La Voz del Norte del Perú". – 24) Pucallpa.

25) R. San Cristóbal, Jirón Huallaga 515, Lima. – **L.P.:** Dir. Gen.: P. Tello Cadenas. Dir. Tec.: G. Rojas. – **ANN.:** "Onda Popular".

26) Apt. 1098, Lima. – **L.P.:** Dir.: M. Luna. Dir. Tec.: D. Capella R.

27) Av. Tacna 545, Lima. – **L.P.:** Dir.: W. R. Quintas. – **ANN.:** "Radio Luz, la primera emisora del dial". – **V.** by QSL-card.

28) Sappi 601, Cuzco. – **ANN.:** "Esta es Radio Cuzco, La Voz de la Capital Arqueológica de América". – **V.** by QSL-card.

29) Cerro de Pasco. – 30) Chachapoyas.

31) Cas. 9, Chiclayo. – **L.P.:** Dir.: J. C. Montjoy. – **V.** by letter.

32) Comp. Radiodif. Excelsior, Camaná 975, Lima. – **L.P.:** Dir.: A. Belmont. Dir. Tec.: J. Farfán. – **ANN.:** "Transmite R. Excelsior."

33) Av. Giráldez 390, Huancayo. – 34) Portal Comercio 165, Cuzco.

35) Av. Nicolás de Piérola 533, Lima. – **L.P.:** Dir.: O. Dianderas.

36) Casilla 149, Piura. – **L.P.:** Dir.: J. C. Montroy. – **V.** by letter.

37) Av. Larco 760, Miraflores, Lima. – **FI.:** By advertisements. – **L.P.:** Dir. Gen.: C. Palma Schmalz. Dir. Tec. R. Palma S. Dir. For. Rel.: L. Garro. – **D.PRGR.: Wrp.:** 13.00. – 38) Cas. 23, Arequipa.

39) Aniceto Ibarra 436, Tacna. – **V.** by letter. 40) Av. Tacna 655, Lima.

41) Arica 28–30, Casilla 174, Iquitos. – **ANN.:** "Desde el corazón de la Amazonía, en Iquitos, transmite R. Loreto, La Voz del Oriente Peruano".

42) Casilla 1427, Lima. – **L.P.:** Dir.: G. D. Brandt, J. G. Bresani, M. G. de Rivero. Dir. Tec.: A. Gonzáles A. – **ANN.:** "En su receptor y en todas partes, Radio Central, la emisora más popular".

43) Colmena Izquierda 214, Lima. – **L.P.:** Dir. J. C. Andrade. – **ANN.:** "Esta es OAX4N, Radio Selecta de Lima, una emisora al servicio de la cultura musical del país". – 44) Ica.

45) San Martin 126 Altos, Iquitos. **Te.:** 258.

D.PRGR.: N.: 12.00, 17.00, 00.00. **Folklore Music:** 11.00. – **ANN.:** "Escuche y compare... Aqui Transmite Radio Atlantida ... Tan majestuosa como el Amazonas, por su alcance y potencia". – **V.** by QSL-card and letter. – **F.PL.:** Increase power. – 46) Lima.
47) Av. Wilson 1191, Lima. – **L.P.:** Mgr. B. Dextre. Mgr. Com. A. Shozen Irei. Dir. Tec.: A. Telleria. – **D.PRGR.: Japanese:** "La hora radial japonesa": **D.:** 14.00–15.00, 18.30–20.00, 02.00–03.00. – **ANN.:** "Dondequiera que Ud. vaya, ahí estara Radio Inca del Perú".

Medium Waves:
48) **R. Imperial,** Cañete. – 49) **R. Chimbote,** Chimbote.
50) **R. Piura,** Piura (or Sáenz Peña 392, Chiclayo).
51) **R. Ritmo,** Pocitos 278, Martin de Porres, Lima. – **L.P.:** Dir.: M. Paz. – **D.PRGR.:** 12.00–06.00. – 52) **R. Pizarro,** Pizarro 525, Trujillo. – 53) **R. Libertad,** Cas. 2391, Lima. –
54) **R. Cultural,** Moquegua. – 55) **R. Salcantay,** Cuzco.
56) **R. Puno,** Puno. – 57) **R. Libertad,** B. 437, Trujillo.
58) **R. Huaraz,** Huaraz. – 59) **R. Atalaya,** Camaná 975, Lima.
60) **La Voz del Sur,** Tacna. – 61) **R. Chiclayo,** Chiclayo.
62) **R. Chinca,** Los Angeles 328, Chinca. – 63) **R. Sicuani,** Sicuani.
64) **R. Fessa de Cañete,** Av. Mariscal Benavides 699, San Vicente de Cañete. – **L.P.:** Dir.: B. Sánchez. **F.PL.:** S.w. (OBX5W).
65) **R. Santa Rosa,** Apt. 3758, Lima. – 66) **La Voz del Chira,** Sullana.
67) **R. Huánuco,** Huánuco. – 68) **La Voz del Puerto,** Pisco.
69) **R. Cultural,** Abancay. – 70) **R. Nazca,** Nazca.
71) **R. Tarma,** Huaraz 198, Tarma. – **L.P.:** Dir.: N. Monteverde.
72) **R. Iquitos,** R. Loreto S.A., Iquitos. – 73) **R. Reloj,** Ocoña 474, Lima.
74) **R. Corporación,** Jirón Lima 169, Cerro de Pasco.
75) **R. Cultural,** Iquitos.

★ SURINAM (Dutch Guiana) ★

L.T.: GMT÷3½ h. – **Pr. L.:** Dutch, English, Hindustani, Javanese. – **Po.:** 350.000. – **Revrs.:** 40.000. – **E.C.:** 125 V., A.C., 50 c/s.

ALGEMEENE VEREENIGING RADIO OMROEP (Comm.)
ADDR.: A.V.R.O.S., P.O. Box 720, Paramaribo. Te.: 2560. – **L.P.:** Chairman of the Board of Directors: E. Bruma. Dir. of Prgr.: G. Hering. Dir. Tec.: E. Emanuels.
HOME SCE.: 09.30–03.30. *) directed to Curaçao.

1035	kc/s	289.9 m	4 kW:		as above
3395	–	61.83 –	0.4	– :	as above
4852	–	62.00 –	0.4	– :	Foreign Sce. (see below)
15405*)	–	19.47 –	0.35	– :	09.30–12.30, 20.30–22.00
15465*)	–	19.40 –	0.35	– :	22.00–03.30

N. in Dutch: 09.50, 11.30, 13.30, 17.15, 22.30, 02,15. – **N. in Surinam language** (talkie talkie): 15.30, 23.35. – **N. in Hindi:** 19.20.
FOREIGN SCE. on 1035/4852/15465 kc/s:
Mo. 01.30–02.00 "Surinam calls the Caribbean" in **English** and **Spanish** – Tues. 02.30–03.30 Special prgr. for the Netherlands Antilles. – **ANN.: Sp.:** "Esta es Radio Surinam, la AVROS, en Paramaribo, capital de Surinam, uno de sus vecinos en la America del Sur". – **Dutch:** "Hier is R. Suriname de Avros op golflengten van ....." **V.** by letter.

RADIO APINTIE (Comm.)
ADDR.: P.O. Box 352, Paramaribo. – **L.P.:** Dir. Gen.: E. Vervuurt. Dir. Prgr.: A. Kamperveen. Dir. Tec.: L. de Freitas.
HOME SCE. in Dutch, Talkie-Talkie, English, Hindustani, Javanese, Chinese and French: 09.30–02.30.
840 kc/s 355 m 1 kW: **N.:** 09.40, 13.30, 17.15, 22.30, 01.15.
ANN.: "Radio Apintie, Paramaribo". – **V.** by letter.

★ URUGUAY ★

L.T.: GMT÷3h – **Pr.L.:** – **Spanish – Po:** 3.000.000 – **Revrs:** 800.000 – **E.C.:** 220 V., A.C., 50 c/s.

ASOCIACION NACIONAL DE BROADCASTERS URUGUAYOS
ADDR.: Uruguay 1218, Montevideo. – **Cable:** "ANDEBU". – **Te.:** 84456. – **L.P.:** Pres.: Juan E. de Feo. Secr.: Juan U. Pierri.
STATIONS: All st. pr. comm. exc. 6), 33), 34).
Short Waves: Call: CX—.

Call	kc/s	m	kW	m.w.	Name & h. of tr.
1) A2	6000	50.00	5	1170	R. Sur: 10.00–03.00
2) A30	6035	49.71	1	1130	R. Nacional: 15.00–03.00
3) A61	6045	49.63	10	810	El Espectador: 12.00–03.00
4) A3	6075	49.38	2.5	730	R. Ariel: 10.00–03.00
5) A73	6115	49.06	2	580	R. Clarin: 24 h.
6) A4	6125	48.98	10	*	S.O.D.R.E.: 13.00–03.10
7) A20	6140	48.86	10	930	R. Monte Carlo: 10.00–03.00
8) A13	6155	48.74	10	850	R. Carve: 14.00–18.00, 22.00–03.00
9) A21	6170	48.62	1	1330	R. Fenix: 14.00–16.00, 21.00–01.00
10) A71	9515	31.53	10	690	R. Sarandi: 12.00–20.00
7) A72	9595	31.27	10	930	R. Monte Carlo: 14.00–19.00
6) A6	9620	31.19	20	*	S.O.D.R.E.: 12.00–03.10
11) A7	11735	25.56	5	770	R. Oriental: 11.00–15.00, 20.00–02.00
3) A19	11835	25.35	5	810	El Espectador: 10.55–03.00
10) A68	11885	25.24	10	690	R. Sarandi: 02.00–04.00
6) A10	11900	25.21	20	*	S.O.D.R.E.: 22.30–03.10
10) A60	15385	19.49	10	690	R. Sarandi: 21.00–01.00

* 650/1050/1290 kc/s.
Medium Waves: ° — Short Wave.

	Call	kc/s	kW
12)	CW1	550	4.5
5)	CX58	°580	1
13)	CX4	610	5
6)	CX6	°650	
15)	CW23	820	1/0.5
8)	CX16	°850	50
3)	CX18	°890	10/5
7)	CX20	°930	10/5
16)	CX22	970	1.5
8)	CX24	°1010	2.5
6)	CX26	°1050	20
17)	CX28	1090	10/5
18)	CW31	1120	2/0.5
2)	CX30	°1130	10/5
1)	CX32	°1170	10/5
19)	CW33	1200	0.25
20)	CX34	1210	2.5
21)	CW35	1240	2/1
22)	CX36	1250	3/1
3)	CW37	°1260	1/0.25
6)	CX6	°650	50
14)	CW27	680	1/0.25
10)	CX8	°690	10/5
6)	CX38	°1290	1
23)	CW39	1320	0.5/0.1
9)	CX40	°1330	0.5
24)	CW53	1340	2.5/1
25)	CW41	1360	0.5
26)	CX42	1370	2.5
27)	CW45	1390	1/0.5
28)	CW46A	1400	5/10
29)	CX44	1410	5
30)	CW43	1420	1/0.5
31)	CW25	1430	1
32)	CX46	1450	5/2.5
33)	CW46B	1460	0.25
34)	CW46C	1460	0.03
35)	CW47	1470	1/0.5
4)	CX10	°730	5/2.5
11)	CX12	°770	25
3)	CX14	°810	25
36)	CW43B	1480	1
37)	CX48	1490	5
38)	CW47B	1510	0.1
39)	CX 152	1520	0.25
40)	CX50	1530	0.5
41)	CX155	1550	0.25
42)	CW51	1560	0.5
43)	CW52	1570	0.25
44)	CV157	1570	0.1
45)	CX157	1570	0.1
46)	CW54	1580	0.25
47)	CV158	1580	0.1
48)	CX159	1590	0.25
49)	CW56	1600	0.25
50)	CV160	1600	0.1

Short Waves:
1) Compañia Uruguaya de Publicidad S.A., Yi 1383, Montevideo.
2) O.R.O.S.A., Plaza Independencia 846, Montevideo. – **V.** QSL-card.
3) Difusoras del Uruguay S.A., 18 de Julio 1393, Montevideo. – **D.PRGR.:** CX14 **El Espectador:** 09.58–03.00; CX18 **R. Libertad Sport:** 10.50–03.00; CW37 **Difusora Rochense,** Dr. Julián Graña, Rocha: 11.00–01.00 (Sat. & Sun. 03.00).
4) 18 de Julio 1460, Montevideo. – **L.P.:** Dir.: J. U. Pierri. – **V.** by QSL-card.
5) Colonia 1487, Montevideo. – **Te.:** 405841. – **FI.:** By adv. – **AD.:** 3 min. for every 15. min. of music. – **L.P.:** Dir.: Ing. F. D. Tourrelles. – **D. PRGR.: Folklore Music:** D. 11.00. – **N.:** 11.00, 13.00, 15.00, 17.00 19.00, 21.00, 23.00, 01.00. – **Wrp.:** D. 16.00. – **Italian:** "La Voz de Italia" D. 23.15. – **ANN.:** "CX58 R. Clarin. Desde la punta del dia, clarinadas de patria y libertad" (every 15 mins). – **V** by letter. – **F.PL.:** TV June 1961; FM.
6) Mercedes 823, Montevideo, **Cable:** "SODRE". – **D.PRGR.:** CX6/CX26: 12.00–03.10. CX38: 21.00–03.00. – **N.:** 13.00, 15.00, 20.00, 24.00, 02.55. – **ANN.:** "Servicio Oficial de Difusion Radio Electrica Montevideo con sus emisoras..." – **INT. SIG.:** First movements of "Campo". – **V.** by QSL-card.
7) 18 de Julio 1224, 4° piso, Montevideo. – **Cable:** "Montecarlo". – **L.P.:** Dir. Gen.: H. Romay Salvo. – **D.PRGR.:** CX20 930 kc/s: 1000.–03.00.
8) Mercedes 973, Montevideo. – **Cable:** "SADREP". – **L.P.:** Dir. Gen: R. Fontaina, J. E. De Feo. Dir. Tec.: A Salvo. – **V** by QSL-card
9) Rio Branco 1366, Montevideo. – **L.P.:** Dir.: J. J. Rabassa. – **D. PRGR.:** CX40: 10.00–05.00 (Sat. 06.00).
10) Corporacion de Publicidad S.A., Bulevar Gral. Artigas 1515, Montevideo. – **L.P.:** Dir.: A. Pérez Parrabere. – **D.PRGR.:** CX8: 10.45–03.00. – **V.** by letter.
11) Olimar 1364, Montevideo. – **L.P.:** Dir.: Dr. L. A. Artola. – **D. PRGR.:** CX12: 11.00 (Sun. 12.00)–02.00.

Medium Waves:
12) **R. Colonia,** Alberto Mendez 164, Colonia. – **L.P.:** Dir. R. Montellano. – **D.PRGR.:** 10.00–05.00 (Fri. 05.30, Sat. 09.00).
13) **R. Rural,** Diario Rural S.A., 18 de Julio 1513, Montevideo. – **L.P.:** Dir.: A. M. Lázaro. – **D.PRGR.:** 09.58–03.00 (Sat. & Sun. 06.00).
14) **R. Tabaré,** Uruguay 678, Salto. – **L.P.:** Dir.: L. Battle B. – **D. PRGR.:** 10.00–03.00.
15) **R. Cultural,** Lavalleja 42–48, Salto. – **L.P.:** Dir.: Ramón J. Vinci & Hector J. Carbone. – **D.PRGR.:** 10.00 (Sun. 10.30)–03.00.
16) **R. Universal,** Soriano 1217, Montevideo. – **L.P.:** Dir.: O. Porrás. – **D.PRGR.:** 10.00–03.00 (Sat. 05.00).

17) **R. Imparcial,** Av. Agraciada 1708, Montevideo. – **L.P.:** Dir.: W. Figueira M. – **D.PRGR.:** 24 h. – **V.** by QSL-card.
18) **R. Salto,** Brasil esq. Amorin, Salto. – **D.PRGR.:** 11.00–03.00.
19) **Difusora Florida,** Gallinal 696, Florida. – **L.P.:** Dir.: U. H. Acuña. – **D.PRGR.:** 13.00 (Sun. 12.30)–01.00.
20) **R. Artigas,** Av. Millan 2370, Montevideo. – **D.PRGR.:** 12.30–02.30.
21) **Paysandú Broadcasting,** 18 de Julio 1044, Paysandú. – **L.P.:** Dir.: A. M. Qrdoqui. – **D.PRGR.:** 11.00–03.00.
22) **Broadcasting Centenario del Uruguay,** Olimar 1364, Montevideo. – **FI.:** By advertisements. – **L.P.:** Dir.: J. L. Rubio. Mgr.: F. Correa. Dir. Tec.: R. Walder. – **D.PRGR.:** 09.30–07.00. – **V.** by letter. – **F.PL.:** S.w. tr., FM, increase power.
23) **La Voz de Paysandú,** 18 de Julio 614, Paysandú. – **L.P.:** Dir.: A. M. Penna. – **D.PRGR.:** 11.00–03.00.
24) **La Voz de Melo,** Montevideo 721, Melo. – **L.P.:** Dir.: Rubén D. Lucas. – **D.PRGR.:** 11.00–03.00.
25) **Broadcasting San José,** Treinta y Tres 890, San José. – **L.P.:** Dir.: C. Marin A. & R. Sguilla M. – **D.PRGR.:** 13.00–02.00.
26) **R. del Pueblo,** Mercedes 1805, Montevideo. – **L.P.:** Dir.: R. Baz. – **D.PRGR.:** 11.15–03.00.
27) **Difusora Treinta y Tres,** Pablo Zufriategui 230, Treinta y Tres. – **L.P.:** Dir.: A. Pinho. – **D.PRGR.:** 10.50–03.00.
28) **Difusora Zorrilla de San Martin,** 18 de Julio 310, Tacuarembó. – **L.P.:** Dir.: Luis S. Dini. – **D.PRGR.:** 09.56–02.00. – **V.** by QSL-card.
29) **R. Austral,** 18 de Julio 965, 2° piso, Montevideo. – **L.P.:** Dir.: Raúl Beisso C. – **D.PRGR.:** 11.55 (Sun. 08.25)–02.00.
30) **R. Lavalleja,** José E. Rodó 530, Minas. – **L.P.:** Dir.: J. Ramón Volante. – **D.PRGR.:** 12.55–02.00.
31) **R. Durazno,** 18 de Julio 592, Durazno. – **L.P.:** Dir.: R. Evangelisti. – **D.PRGR.:** 14.00–00.30.
32) **R. América,** Plaza Independencia 846, Montevideo. – **L.P.:** Dir. M. Svirsky. – **D.PRGR.:** 13.00 (Sun. 12.00)–17.00, 19.00 (Sat. 18.30)–01.00.
33) **Liceo de Dolores,** Liceo de Dolores, Soriano. – **D.PRGR.:** irreg.
34) **Liceo de San Carlos,** San Carlos, Maldonado. – **D.PRGR.:** 21.00–24.00 (Sun. 10.00–13.00).
35) **R. Montevideo,** Rio Branco 1366, Montevideo. – **D.PRGR.:** 11.00–02.00.
36) **R. Internacional,** Sarandi 792, Rivera. – **L.P.:** Dir.: W. Figueira M. – **D.PRGR.:** 10.30–02.00 (Sat. 05.00).
37) **R. Femenina,** 18 de Julio 1333, 2° piso, Montevideo. – **L.P.:** Dir.: Sara Vazquez. – **D.PRGR.:** 13.00–01.45.
38) **R. Berna,** Nueva Helvecia. – **L.P:** Dir.: M. A. Ravazzani. – **D. PRGR.:** 10.00–16.30, 18.00–23.30.
39) **R. Cerro Largo,** Ituzaingo 660, Melo. – **D.PRGR.:** 11.00–03.00.
40) **R. Independencia,** Paysandú 1186, Montevideo. – **L.P.:** Dir.: A. Rupenián. – **D.PRGR.:** 11.00–03.00.
41) **R. Carmelo,** 19 de Abril 444, Carmelo .– **L.P.:** Dir.: U. Lobecio P. – **D.PRGR.:** 11.00–03.00.
42) **R. Maldonado,** Isla de Gorriti 819, Maldonado (or 18 de Julio 1561, Montevideo). – **L.P.:** Dir.: H. Lamaison. – **D.PRGR.:** 12.00–02.00.
43) **R. Litoral,** España 1157, Fray Bentos. – **L.P.:** Dir.: G. Arizti. – **D.PRGR.:** 12.00–02.00.
44) **R. Bella Union,** Dept. Artigas. – **D.PRGR.:** 11.00–03.00.
45) **R. Cenelones,** Cenelones. – **D.PRGR.:** 11.00–03.00.
46) **Emisora del Este,** Domingo Pérez 491, Minas. – **D.PRGR.:** 10.45–02.00.
47) **R. Rivera,** Monseñor Vera 1132, Rivera. – **L.P.:** Dir.: D'Artagnán Pedezert. – **D.PRGR.:** 10.30–17.00, 20.00–00.30.
48) **Emisora Real de San Carlos,** Av. Gral. Flores 468, Colonia. – **L.P.:** Dir.: Dr. E. Geimonart. – **D.PRGR.:** 10.00–03.00.
49) **Difusora Soriano,** Florida 568, Mercedes. – **L.P.:** Dir.: M. M. Racioppi. – **D.PRGR.:** 10.00–03.00.
50) **R. Atlantica,** Parada 3, Punta del Este. – **D.PRGR.:** 11.00–03.00.

★ VENEZUELA ★

L.T.: GMT÷4½ h. – **Pr. L.:** Spanish: – **Po.** 7.000.000. – **Rcvrs.:** 1.250.000. – **E.C.:** 110/220 V., A.C., 50 c/s.

MINISTERIO DE COMUNICACIONES

ADDR.: Direccion de Telecomunicaciones, Division Internacional y Tecnica, Caracas.

Camara Venezolana de la Industria de la Radio y Television

Addr.: Apt. de Correos 3155, Caracas. **Cable:** "Camradio". **Te.:** 425805. – **L.P.:** Pres.: F. Cardona Moreno.

STATIONS: All st's comm. exc. 43) (Go.) & 17) (Rel.)

Short Waves: Call: YV–––. *) = inactive.

	Call	kc/s	m	kW	m.w.	Name	H. of tr.
1)	QG	2360	127.1	1	1220	R. Carúpano	09.30–03.30
2)	LG	2440	122.9	1	660	R. Girardot	10.30–02.30
3)	NI	2470	121.5	1	1140	R. Carora	10.30–02.30
4)	NL	2490	120.5		830	R. Miranda	
5)	KT	3245	92.45	1	880	R. Libertador	10.30–04.30
6)	QL	3255	92.17	0.5	980	La Voz del Tigre	11.30–03.30
7)	OC	3265	91.87	1	780	Ecos del Torbes	10.30–03.30
8)	MC	3275	91.60	1	1150	R. Mara	10.30–03.30
9)	LE	3285	91.32	1	1290	R. Puerto Cabello	10.30–02.30
10)	OG	3295	91.10	0.7	1420	R. Trujillo	11.00–02.30
11)	KX	3305	90.77	3	710	La Voz de la Patria	10.30–03.30
12)	LI	3315	90.50	1	930	R. Maracay	11.30–03.30
13)	RA	3325	90.22	0.6	960	R. Monagas	11.30–03.30
14)	QC	3335	89.95	1	1030	Ecos del Orinoco	10.25–02.30
15)	KP	3345	89.68	2	1160	R. Tropical a)	
16)	QE	3345	89.68	1	860	R. Bolivar	10.30–03.30
17)	LC	3355	89.41	1	850	R. Valencia	10.30–03.30
18)	MI	3375	88.89	0.6	1400	La Voz de la Fe	11.30–02.30
19)	QI	3385	88.63	1	1080	R. Barcelona	09.30–03.30
20)	OJ	3395	88.37	1	1450	R. Universidad	10.30–03.30
21)	KV	4760	63.03	0.5	1070	Emisora Vargas	10.30–03.30
22)	MW	4770	62.89	0.3	1460	Ondas del Caribe	11.30–03.30
23)	LA	4780	62.76	1	690	La Voz de Carabobo	10.30–04.00
24)	QN	4790	62.63	10	650	Ondas Portenas	10.00–03.30
25)	ME	4800	62.50	10	1120	Ondas del Lago	10.30–03.15
26)	MG	4810	62.37	1	700	R. Popular	10.30–03.30
27)	RC	4820	62.24			La Voz de Apure	11.30–02.30
28)	OA	4830	62.11	5	1000	La Voz del Táchira	10.30–03.30
29)	OI	4840	61.98	1	1230	R. Valera	11.30–03.30
30)	MS	4850	61.86	1	1090	R. Universo	10.30–03.30
31)	PA	4860	61.75	1	1490	R. Yaracuy	10.30–03.30
32)	KF	4880	61.48	7.5	950	Ondas Populares	10.30–03.30
33)	KB	4890	61.35	5	790	R.dif. Venezuela	10.30–04.30
15)	KP	4900	61.22	2	1160	R. Tropical	10.30–03.30
34)	MK	4910	61.10	1	1250	R. Cabimas	10.30–03.30
35)	KR	4920	60.99	7.5	750	R. Caracas	10.30–05.30
36)		4930	60.85		1240	R. Junin	
37)	MO	4940	60.73	2	1280	R.dif. Occidental	10.30–03.30
38)	MM	4950	60.60	1	1210	R. Coro	10.30–03.30
39)	QA	4960	60.48	1	670	R. Sucre	10.30–03.30
40)	LK	4970	60.36	10	**)	R. Rumbos	09.30–04.30
41)	MQ	4990	60.12	15	680	R. Barquisimeto	12.00–03.30
42)	NK	5020	59.76		840	R. Cronos	15.30–18.30
							21.30–02.30
43)	KÓ	*5020	59.76	10	630	R.dif. Nacional	
44)	KM	5030	59.64	10	590	R. Continente	09.30–04.00
45)	MA	5040	59.55	1	800	Ecos del Zulia	10.30–04.30
46)	KD	5050	59.41	5	1100	R. Cultura	10.30–03.30
43)	KO	*6170	48.62	3	630	R.dif. Nacional	
41)	XJ	9510	31.55	15	680	R. Barquisimeto	10.30–03.30
°)	MZ	9530	31.48	1		Various tr.	12.00–03.30
°°)	OM	9570	31.35	1/10		Various tr.	12.00–03.30
43)	SC	*9640	31.12	10	630	R.dif. Nacional	
40)	LK	11725	25.59	1	**)	R. Rumbos	
40)	LK	11970	25.06	1	**)	R. Rumbos	09.30–04.30

**) 560/1020 kc/s. °) common freq. for 25), 45), 56). °°) common freq. for 7), 27). a) reported on 4900 kc/s.

Medium Waves: Call: YV–––. °=Short Waves.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
40)	LX	°560d	100	32)	KG	°950	7.5	65)	QQ	1190	0.25
44)	KL	°590	20	13)	RB	°960	1	38)	MN	°1210	1
47)	NO	610	10	53)	ND	970	10	1)	QT	°1220	1
43)	KA	°630	50	6)	MQ	°980	10	29)	OH	°1230	0.25
24)	QO	°650	10	54)	LR	990	10	36)	OL	°1240	10
2)	LH	°660	50	28)	OB	°1000	10	66)	LQ	1240	1
39)	QB	°670	10	55)	NM	1000	1	67)	*	1250	
41)	MR	°680	15	40)	LL	°1020	10	34)	ML	°1250	1
23)	LB	°690	1	56)	NZ	1030	0.3	68)	*	1270	
26)	MH	°700	10	14)	QD	°1030	1	37)	MP	°1280	2
11)	KY	°710	10	57)	ON	1040	10	9)	LF	°1290	1
48)	QR	720	10	58)	LN	1060	0.3	69)	KH	1300	1
49)	NP	730	120	21)	KW	°1070	1	70)	QY	1310	0.6
35)	KS	°750	10	59)	NG	1070	1	71)	OE	1320	1
7)	OD	°780	10	19)	QJ	°1080	1	72)	QU	1340	0.1
33)	KC	°790	5	30)	NT	°1090	10	73)	NH	1350	0.5
45)	MB	°800	10	46)	KE	°1100	10	74)	LO	1370	1
50)	LP	810	10	60)	NN	1110	1	75)	QZ	1390	0.2
4)	LT	°830	10	25)	MF	°1120	10	18)	MJ	°1400	0.6
42)	MY	°840	1	61)	NA	1130	0.3	10)	OF	°1420	0.5
17)	LD	°850	10	3)	MU	°1140		76)	NJ	1430	0.5
16)	QF	°860	1	62)	TD	1140	10	77)	FR	1440	0.5
5)	KU	°880	10	8)	MD	°1150	1	20)	OJ	°1450	1
51)	LW	890	10	15)	KQ	°1160	10	22)	MV	°1460	1
52)	QX	920	1	63)	QV	1170	2	78)	*	1490	
12)	LJ	°930	1	64)	RE	1190	0.25	31)	PB	°1490	

* under construction. 40) YVLL 1020 kc/s: SSB (Single Side Band) every Sat. 21.30–22.30. St's. 6), 24), 30), 54), 56), 60), 71) belong to 44). St's. 1), 19), 39) belong to 40).

Venezuela

Short Waves:
1) Carúpano. – **F.PL.:** Change of frq. to 940 kc/s and 10 kW.
2) C. A. Radio Girardot, Maracay. – 3) Carora. **L.P.:** Dir.: C. González. – 4) Los Teques. – **L.P.:** Dir.: A. Landaeta.
5) Oeste 10 1–1 (Cipreses a Miracielos), Caracas. **Te.:** 410320. – **L.P.:** Dir. Gen.: L. Raymonpi. Dir. Tec.: H. Decwitz. – **D. PRGR.: English:** 11.30–13.00, 22.30–24.00. **Portuguese:** 17.30–18.00. – **V.** by letter.
6) El Tigre (Anzoátegui). – 7) Ca. 9–55, Apt. 152, San Cristobal. Dir. Tec.: J. A. Lugo Blanco. – **D. PRGR.:** W. 10.30–03.30. Sun. 11.30–01.30. – **ANN.:** "Desde San Cristóbal, Venezuela, Patria de El Libertador transmite Ecos del Torbes, su Emisora Predilecta, Estaciones YVOC, 3265 kc/s onda corta, 780 kc/s onda larga y YVOM 9570 kc/s banda internacional de 31 metros. – **V.** by letter.
8) Apt. 100, Maracaibo. – **L.P.:** Dir.: L. A. Govea.
9) Apt. 4, Puerto Cabello. **Te.:** 3388. – **L.P.:** Dir. Gen.: S. Guevara V. Dir. Tec.: R. Betancourt. – **FM:** 90.5 mc/s, 102.2 mc/s.
10) Ca. Independencia 200, Trujillo. – **L.P.:** Dir.: P. J. Torres.
11) C. A. La Voz de la Patria, Caracas. – **V.** by letter.
12) Maracay. – **L.P.:** O.: Armezzano & Vásquez.
13) Apt. 14, Maturin. – **L.P.:** Dir.: L. Arreaza. – **V.** by letter.
14) Apt. 47, Ci. Bolivar. – **V.** by letter.
15) San Jacinto 9, Caracas. – **V.** by QSL-card.
16) Calle Dalla Acosta 5 altos, Ci. Bolivar. – **L.P.:** Dir. Gen.: J. Antonio N. – **D. PRGR.:** N.: 11.30, 23.30. – **Folklore Music:** 10.30.
17) Valencia. – **L.P.:** Dir.: M. Aché. – 18) Maracaibo. – **L.P.:** Dir.: P. Bermudez.
19) Apt. 27, Barcelona. – **L.P.:** as 1). – **F.PL.:** YVQJ 10 kW.
20) Apt. 74, Merida. – 21) La Guaria. – **L.P.:** Dir.: P. Sosa Guzmán.
22) Punto Fijo. – **L.P.:** Dir.: R. Leyba. – 23) Valencia. – **V.** by letter.
24) Apt. 4123, Puerto la Cruz. – **L.P.:** Dir.: A. J. Istúriz. Mgr.: R. Bollorin M. – **V.** by letter.
25) Apt. 261, Maracaibo. **Cable:** "Telezulia". – **L.P.:** Pres. & Owner: N. Vale Quintero. Vice-Pres.: E. C. de Vale. Secr.: F. Morena. – **V.** by QSL-card. R.p. – **F.PL.:** 50 kW m.w. tr.
26) Apt. 347, Maracaibo. – **L.P.:** Dir.: J. Higuera M. – **V.** by QSL-card/letter. – 27) Apt. 14, San Fernando Apure.
28) Apt. 37, San Cristobal. Te.: 11002. – **L.P.:** Dir. Gen., Dir. Tec.: J. M. Diaz González. – **D. PRGR.:** N.: 11.30, 17.00, 22.30, 01.00, 02.00. – **International Sce.: Dutch:** Wed., Fri. 02.30–03.00. – **V.** by letter.
29) Ca. Bolivar 54, Valera. – **L.P.:** Dir.: J. Febres J.
30) Apt. 76, Barquisimeto. – **V.** by letter. – 31) San Felipe.

DXing HORIZONS MAGAZINE

KEN BOORD
Shortwave Editor

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32) Edificio Radio Centro, Apt. de Correos 2057, Caracas. **Te.:** 418971. – **L.P.:** Dir. Gen.: F. Cardona M. – **ANN.:** "Con su transmisor FM en 92.00 mc/s desde Caracas, Venezuela, cuna del libertador transmite Ondas Popular". – **V.** by QSL-card.
33) Cipreses a Miracielos 1, Caracas. – **D. PRGR.: German:** Mo. 00.30–01.00. – **ANN.:** "Radiodifusora Venezuela – máxima en potencia y calidad – transmitiendo desde Caracas, Venezuela, cuna del Libertador". – 34) Ca. Democracia, Cabimas. – **V.** by letter.
35) Apt. 2057, Caracas. – **L.P.:** Dir. Gen.: A. Espina. Dir. Prgr.: A. Ferrara. Dir. Tec.: J. M. Coello. – **D. PRGR.: N.:** 13.45, 15.30, 18.15, 01.30. – German: 00.15–00.45 – **V.** by QSL-card or letter.
36) Diócesis San Cristobal, San Cristobal. – **L.P.:** Dir.: P. Vivas Arellano. – 37) Apt. 76, Barquisimeto. – **V.** by letter.
38) Comercio y Monzón 77, Coro. – **L.P.:** Dir. Gen.: R. Leyba. Dir. Tec.: V. J. Roca. – **D. PRGR.: N.:** 12.30, 16.30, 23.30. – **Folklore Music:** 10.30, 17.00. – **INT.-SIG.:** Opens and closes with the march "Los Tres Colores" and the Nat. Anthem. – **V.** by letter.
39) Apt. 26, Cumana. – **L.P.:** as 1). – **V.** by letter. – freq. to 1020 kc/s.
40) Apt. 2618, Caracas. **Te.:** 415963. – **L.P.:** Pres.: F. Serrano M. Dir. Tec.: A. Gulbis. – **D. PRGR.: N.:** 10.30, 16.30, 21.30, 23.45, 04.00. – **ANN.:** "Transmite Radio Rumbos, la emisora de Venezuela". – **INT.-SIG.:** 3 chime gong and follow. station ID. – **V.** by QSL-card. – **FM:** YVLL-FM 99.08 mc/s 1 kW. – **F.PL.:** Change of freq. to 670 kc/s.
41) Apt. 576, Barquisimeto. – **V.** by QSL-card. – 42) Apt. 76, Barquisimeto.
43) Llaguna a Ctel. Viejo, Caracas. – **D. PRGR.: Esperanto:** Tues. 02.00–02.30. – **V.** by QSL-card.
44) Circuito Radio Continente, Apt. 866, Caracas. **Cable:** Continente. **Te.:** 543411. – **L.P.:** Pres.: J. F. Rodriguez. Dir. Tec.: H. W. Walden. **N.:** 10.30, 11.30, 15.00, 16.15, 21.00, 23.20, 23.55, 02.30. – **ANN.:** "Desde Caracas, Venezuela, Cuna del Libertador, transmite R. Continente, la emisora mas potente del pais. YVKL onda larga, 590 kc/s, YVKM onda corta, 5030 kc/s". – **V.** by letter. – **F.PL.:** m.w. tr. 20 kW. **PUB.:** Prgr.schedule free on request.
45) Apt. 37, Maracaibo. **Cable:** "Ecozulia". – **L.P.:** Pres.: L. Garcia N. Gen. Mgr.: A. Baralt L. – **V.** by QSL-card.
46) Apt. de Correos 1931. Caracas. **Te.:** 41–09–76. – **L.P.:** Dir. Gen.: I. Neri. Dir. Tec.: A. Egea López. – **D. PRGR.: N.** 10.45, 16.30, 22,30. – **Italian:** 01.30–03.30. – **Folklore Music:** 21.00–22.00. – **ANN.:** "En el año sesquicentenario de nuestra independencia, desdd Caracas, Venezuela, Cuna de El Libertador, transmite Radio Cultura – – –". **V.** by QSL-card F. **PL.:** 20 kW tr.

Medium Waves:
47) **R. Libertad,** Cabimas. – 48) **R. Cumana,** Cumana. – **L.P.:** as 23).
49) **La Emisora de Maracaibo,** Apt. 338, Maracaibo. **Te.:** 73983. – **L.P.:** Dir.: H. Ascanio Buroz. – 50) **R. 810,** Valencia. – **L.P.:** as 13).
51) **R. America,** Valencia. – **L.P.:** Dir.: P. Bernardo Heredia.
52) **R. Nueva Esparta,** Porlamar. – **L.P.:** as 13). – **ANN.:** "Radio Nueva Esparta, la emisora más poderosa del Oriente".
53) **R. Catatumbo,** Maracaibo. – 54) **R. Central,** Marcaay. – 55) **R. Morón,** Morón.
56) **R. Calendario,** Ca. 96, P.O. Box 789, Maracaibo. – **L.P.:** Dir.: M. N. de Rosales. – 57) **R. Los Andes,** Mérida.
58) **R. Guárico,** San Juan de los Morros. – **L.P.:** Dir.: J. Ghersy.
59) **R. Llagunillas,** Llagunillas. – 60) **R. Paraguaná,** Punto Fijo. – **L.P.:** Dir.: M. Flores V.
61) **Ondas de los Médanos,** Coro. – 62) **R. Los Valles del Tuy,** Ocumare del Tuy.
63) **R. Acarigua,** Acarigua. – 64) **R. Barinas,** Barinas. – **L.P.:** Dir.: R. Sosa Rios.
65) **R. Puerto La Cruz,** Puerto La Cruz. – **L.P.:** as 13).
66) **La Voz de la Victoria,** La Victoria. – **L.P.:** Dir.: E. M. Marin.
67) **R. Caroni,** San Félix. – **L.P.:** as 23). (Under construction).
68) **R. Tucupita,** Tucupita. – **L.P.:** Dir.: S. Hernández.
69) **R. Crono Radar,** Av. General Paéz, El Paraiso, Caracas. – **L.P.:** Dir.: O. Suárez. – 70) **R. Guanara,** Guanare.
71) **R. San Cristobal,** San Cristobal. – 72) **R. San Carlos,** San Carlos.
73) **Ondas del Escalante,** Santa Bárbara del Zulia.
74) **R.dif. La Pascua,** Ca. Real 17, Valle de La Pascua.
75) **R. Eduardo Méndez,** Anaco. – **L.P.:** as 13).
76) **R. Progreso,** Bachaquero. – 77) **R. Orituco,** Altagracia de Orituco. – **L.P.:** as 58).
78) **R. Boconó,** Boconó. – **L.P.:** Dir.: R. Lanzetta O.

RED DE EMISORAS DEL MOVIMIENTO (R.E.M.)

EMISORA CENTRAL EFE 14 "LA VOZ DE MADRID"

Ayala 15 – MADRID – SPAIN

EFE 23 La Voz de Guipúzcoa
Victor Pradera, 12. – San Sebastián.

EFE 22 Radio Oviedo
Asturias, 9. – Oviedo.

EFE 26 Radio Luarca
Luarca (Asturias).

EFE 31 La Voz de Vigo
Avda. Garcia Barbón, 3. Vigo (Pontevedra)

EFE 25 Radio Cantabria
Pasaje del Arcillero, 2. Santander.

EFE 4 Radio Palencia
Becerro de Bengoa s/n. Palencia.

EFE 57 La Voz de Navarra
Navarro Villoslada, 17.
Pamplona.

EFE 29 Radio Tudela (E.S.)
Eza, 5. Tudela (Navarra)

EFE 10 Radio Alava
Calvo Sotelo, 34. Vitoria.

EFE 5 La Voz de León
Ordoño II, 28. León.

EFE 1 La Voz de Valladolid
Angustias, 1. Valladolid.

EFE 32 Radio Avila (E.S.)
Paseo de San Roque num. 5. Avila

EFE 33 Radio Tarragona
Hermanos Landa, 21. Tarragona

EFE 51 Radio Mora de Ebro.
Valle, 9. Mora de Ebro (Tarragona).

EFE 52 Radio Vendrell
San Magín, 5. Vendrell (Tarragona).

EFE 28 Radio Tortosa
Teodoro Gonzalez, 4. (Tortosa Tarragona)

EFE 50 La Voz de Cataluña
Córcega 291. Barcelona

EFE 9 Radio Villafranca del Panadés
Plaza. Generalísimo, 13. Villafranca del Panades (Barcelona).

EFE 39 Radio Berga.
Plaza. San Pedro, 9. Berga (Barcelona).

EFE 54 Radio Cardona.
Plaza. Generalísimo, 5. Cardona (Barcelona).

EFE 27 Radio Maresma de Mataró (E. S.)
Generalísimo, 45. Mataró (Barcelona)

EFE 16 Radio Puigcerdá.
Plaza Mayor, 19. Puigcerdá (Gerona).

EFE 20 Radio Ripoll (E.S.)
Plaza del Caudillo, 5. Ripoll (Gerona)

EFE 40 La Voz de la Costa Brava.
Ave María, 3. Palamós (Gerona).

EFE 41 Radio Olot
Plaza del Carmen. Olot (Gerona)

EFE 53 Radio Roda de Ter.
Bach, 43. Roda de Ter (Barcelona).

EFE 55 Radio Vich
San Antonio, 4. Vich (Barcelona).

EFE 56 Radio Blanes.
Mercaderes, 4. Blanes (Gerona).

EFE 35 Radio Tárrega (E.S.)
Avda de Cataluña, 17. Tárrega (Lérida)

EFE 62 La Voz de Burriana
Ayuntamiento–Burriana (Castellón)

EFE 17 La Voz de Levante
Pascual y Genis, 27. Valencia.

EFE 11 Radio Utiel.
Alamos, 4. Utiel (Valencia).

EFE 13 Radio Sagunto.
Comandante Padín Arnaiz, 7. Sagunto (Valencia).

EFE 18 Radio Játiva.
Moncada, 14. Játiva (Valencia).

EFE 42 Radio Sueca.
Plaza de los Reyes Católicos, 9. Sueca (Valencia).

EFE 43 Radio Requena.
Villajoyosa, 3. Requena (Valencia).

EFE 15 Radio Ferrol
José Antonio, 75. El Ferrol del Caudillo (La Coruña).

EFE 44 Radio Picasent.
Santa Ana, 11. Picasent (Valencia)

EFE 46 Radio Guadasuar.
Santa Lucía, 11. Guadasuar (Valencia).

EFE 47 Radio Cullera.
Doctor Alemany, 6. Cullera (Valencia).

EFE 48 Radio Carlet.
Maestro Martínez, 5. Carlet (Valencia).

EFE 49 Radio Chelva.
Clavel, 18. Chelva (Valencia).

EFE 59 Radio Manises.
Valencia, 4. Manises (Valencia).

EFE 2 Radio Teruel (E.S.)
Plaza de General Mola, 11. Teruel.

EFE 8 La Voz de Alicante.
Angel Lozano, 14. Alicante.

EFE 7 Radio Denia.
Marqués del Campo, 23.
Denia (Alicante).

EFE 12 Radio Monovar.
Mayor, 129. Monevar (Alicante).

EFE 24 Radio Orihuela.
Ramón y Cajal, 38. Orihuela (Alicante).

EFE 38 Radio Badajoz (E.S.)
Cardenal Carvajal, 2. Badajoz.

EFE 6 Radio Cáceres.
General – Primo de Rivera, 1.
Cáceres

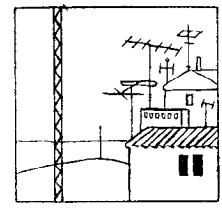
EFE 45 La Voz de Granada (E.S.)
Recogidas, 9. Granada.

EFE 21 Radio Cazorla (E.S.)
Gómez Calderón. Cazorla (Jaén).

EFE 61 Radio Adra.
Adra (Almería).

EFE 34 Radio Atlántico
Buenos Aires 26
Las Palmas de Gran Canaria

WORLD TELEVISION



The principal television systems:
Definition refers to the broadcasts standard which is normally stated in terms of the number of lines which make up the image. Reference in the following surveys is made throughout merely to 405 lines, 525 lines, 625 lines (CCIR*), 625 lines (Soviet**) and 819 lines respectively. Details of these five definitions are given in the following table:

	Systems			
Number of lines per picture	405	525	625*	819
Video bandwidth (mc/s)	3	4	5	10.4
Channelwidth (mc/s)	5	6	7	14
Sound carrier relative to vision carrier	+3.5	+4.5	+5.5	+11.15
(Sound carrier relative to edge of channel)	+0.25	+0.25	+0.25	+0.10
Interlace	2/1	2/1	2/1	2/1
Line frequency (c/s)	10.125	15.750	15.625	20.475
Field frequency (c/s)	50	60	50	50
Picture frequency (c/s)	25	30	25	25
Sense of vision modulation	Positive	Negative	Negative	Positive
Level of black as percentage of peak carrier	30	75	75	25
Sound modulation	AM	FM	FM	AM

* The International Radio Consultative Committee.
** The characteristics are the same as 625 lines CCIR exc. for a difference in bandwidth: video bandwidth 6 mc/s, channelwidth 8 mc/s, sound carrier relative to vision carrier + 6.5 mc/s.

Differences in Belgian TV from resp. CCIR 625 and French 819:

	CCIR 625	Belgian 625	French 819	Belgian 819
Video bandwidth (mc/s)			10,4	5
Channelwidth (mc/s)			14	7
Sound relative to vision			+11,15	+5,5
Sound relative to edge of ch.			+0.10	+0,25
Vision modulation	Negative	Positive		
Level of black as percentage of peak carrier	75	25		
Sound modulation	FM	AM		

The following pages give you the data of the different TV stations of the world. The channel is indicated by a letter followed by a figure. The letter indicates the technical data of the systems which are in use (A: American, B: British etc.) and the figures is the channel number.
The powers for vision and sound are indicated by a fraction, the numerator indicating the number of kW (ERP) for vision and the denominator for sound, for example 6/1.5 means vision 6 kW ERP and sound 1.5 kW ERP.

TELEVISION CHANNELS

A: American Standards:
Sound: F.M.
Vision: Negative mod.
Number of lines: 525
Picture frequency: 30 c/s
Channelwidth: 6 mc/s.
Video bandwidth 4 mc/s

Channel No.	Vision carrier mc/s	Sound carrier mc/s
A-2	55.25	59.75
A-3	61.25	65.75
A-4	67.25	71.75
A-5	77.25	81.75
A-6	83.25	87.75
A-7	175.25	179.75
A-8	181.25	185.75
A-9	187.25	191.75
A-10	193.25	197.75
A-11	199.25	203.75
A-12	205.25	209.75
A-13	211.25	215.75
A-14	471.25	475.75
A-15	477.25	481.75
A-16	483.25	487.75
A-17	489.25	493.75
A-18	495.25	499.75
A-19	501.25	505.75
A-20	507.25	511.75
A-21	513.25	517.75
A-22	519.25	523.75
A-23	525.25	529.75
A-24	531.25	535.75
A-25	537.25	541.75
A-26	543.25	547.75
A-27	549.25	553.75
A-28	555.25	559.75
A-29	561.25	565.75
A-30	567.25	571.75
A-31	573.25	577.75
A-32	579.25	583.75
A-33	585.25	589.75
A-34	591.25	595.75
A-35	597.25	601.75
A-36	603.25	607.75
A-37	609.25	613.75
A-38	615.25	619.75
A-39	621.25	625.75
A-40	627.25	631.75
A-41	633.25	637.75
A-42	639.25	643.75
A-43	645.25	649.75
A-44	651.25	655.75
A-45	657.25	661.75
A-46	663.25	667.75
A-47	669.25	673.75
A-48	675.25	679.75
A-49	681.25	685.75
A-50	687.25	691.75
A-51	693.25	697.75
A-52	699.25	703.75
A-53	705.25	709.75
A-54	711.25	715.75
A-55	717.25	721.75
A-56	723.25	727.75
A-57	729.25	733.75
A-58	735.25	739.75

American Standards Continued

Channel No.	Vision carrier mc/s	Sound carries mc/s
A-59	741.25	745.75
A-60	747.25	751.75
A-61	753.25	757.75
A-62	759.25	763.75
A-63	765.25	769.75
A-64	771.25	775.75
A-65	777.25	781.75
A-66	783.25	787.75
A-67	789.25	793.75
A-68	795.25	799.75
A-69	801.25	805.75
A-70	807.25	811.75
A-71	813.25	817.75
A-72	819.25	823.75
A-73	825.25	829.75
A-74	831.25	835.75
A-75	837.25	841.75
A-76	843.25	847.75
A-77	849.25	853.75
A-78	855.25	859.75
A-79	861.25	865.75
A-80	867.25	871.75
A-81	873.25	877.75
A-82	879.25	883.75
A-83	885.25	889.75

Australian Standards
See Australia.

B: British standards:
Sound: AM. Vision: Positive modulation. Number of lines: 405. Picture frequency: 25 c/s. Ch-width 5 mc/s. Video bandwidth: 3 mc/s.

Channel	Vision carrier	Sound carrier
B-1	45.00	41.50
B-2	51.75	48.25
B-3	56.75	53.25
B-4	61.75	58.25
B-5	66.75	63.25
B-6	179.75	176.25
B-7	184.75	181.25
B-8	189.75	186.25
B-9	194.75	191.25
B-10	199.75	196.25
B-11	204.75	201.25
B-12	209.75	206.25
B-13	214.75	211.25

E: European Standards:
Sound: FM. Vision: Negative mod. Number of lines: 625. Picture frequency: 25 c/s. Ch. width: 7 mc/s. Video bandwidth 5 mc/s.

E-1	41.25	46.75
E-1A	42.25	46.75
E-2	48.25	53.75
E-2A	49.75	55.25
E-3	55.25	60.75
E-4	62.25	67.75
E-4A	82.25	87.75
E-5	175.25	180.75
E-6	182.25	187.75
E-7	189.25	194.75
E-7A	192.25	197.75
E-8	196.25	201.75
E-8A	201.25	206.75
E-9	203.25	208.75
E-10	210.25	215.75
E-11	217.25	222.75

F: French standards:
Sound: AM. Vision: Positive mod. N. of lines: 819 (ch. Fl.: 441). Picture frequency: 25 c/s. (ch. 1:7.6 mc, ch. 8: 14 mc).

F-1	46.00	42.00
F-2	52.40	41.25
F-3	56.15	67.30
F-4	65.55	54.40
F-5	164.00	175.15
F-6	173.40	162.25
F-7	177.15	188.30
F-8	185.25	174.10
F-8A	186.55	175.40
F-9	190.30	201.45
F-10	199.70	188.55
F-11	203.45	214.60
F-12	212.85	201.70

J: Japanese standards:
Sound: FM. Vision: Negative mod. Number of lines: 525. Picture frequency: 25 c/s. Channelwidth: 6 mc/s.

J-1	91.25	95.75
J-2	97.25	101.75
J-3	103.25	107.75
J-4	171.25	175.75
J-5	177.25	181.75
J-6	183.25	187.75
J-7	189.25	193.75
J-8	193.25	197.75
J-9	199.25	203.75
J-10	205.25	209.75
J-11	211.25	215.75

R: Russian standards (OIRT channels).
Sound: FM. Vision: Negative mod. Number of lines: 625. Picture frequency: 25 c/s. Ch. width: 8 mc/s. Video bandwidth 6 mc/s.

OIRT-I	49.75	56.25
OIRT-II	59.25	65.75
OIRT-III	77.25	83.75
OIRT-IV	85.25	91.75
OIRT-V	93.25	99.75
OIRT-VI	175.25	181.75
OIRT-VII	183.25	189.75
OIRT-VIII	191.25	197.75
OIRT-IX	199.25	205.75
OIRT-X	207.25	213.75
OIRT-XI	215.25	221.75
OIRT-XII	223.25	229.75

I: Italian standards:
Sound: FM. Vision: Negative mod. Number of lines 625. Picture frequency: 25 c/s. Channel width: 7 mc/s.

Ch.	Channel limits mc/s		Carrier Frequencies Vision-mc/s-Sound	
A	52,5— 59,5	53,75 59,25		
B	61,0— 68,0	62,25 67,75		
C	81,0— 88,0	82,25 87,75		
D	174,0—181,0	175,25 180,75		
E			182,5—189,5	183,75 189,25
F			191,0—198,0	192,25 197,75
G			200,0—207,0	201,25 206,75
H			209,0—216,0	210,25 215,75

★ AUSTRIA ★

ÖSTERREICHISCHER RUNDFUNK (Gesellschaft m.b.H.)

FI.: By license payments and adv. **AD.:** W. 18.30–19.00. – **ADDR.:** Television Dept., Singrienerstr. 21, Wien XII. **Cable:** Fernsehen. **Te.:** 541626. **Studio:** Maxingstr. 13a, Wien XIII. – **L.P.:** Dir. Gen.: Dr. Carl Cejka. Dir. TV: G. Freund. Dir. Tec., Vice-Dir. Gen.: Dipl. Eng. W. Füchsl.

Stations:	ch.	kW			ch.	kW
Jauerling	E2	60/12	H	Lorenzberg[1]	E6	10/2W
Veitsch[1]	E3	0.01/0.002		Gaisberg	E8	60/12
Patscherkofel	E4	30/6	H	Hieflau[1]	E8	0.1/0.02W
Schmittenhöhe[1]	E6	0.04–0.01	H	Sonnwendstein	E10	5/1
Kahlenberg	E5	60/12	H	Pyramidenkogel	E10	30/6
Pfänder	E5	80/16	H	Schladming[1]	E11	0.0001/0.0002
Lichtenberg	E6	60/12	H	Grünberg[1]	E11	0.005/0.001
Schöckl	E7	60/12	H	Polster[1]	E11	0.01/0.002
Baden[1]	E6	10/2W		Kahlenberg	E19[2]	10/2[3]

[1] Frequency-changer. [2] Temporary ch. [3] Testtransm.

Projected st's: Mugl ch. 9 20/4 kW, Kaibling ch. 11 10/2 kW and several 10 W power st's. – **D. PRGR.:** Mo., Wed., Thurs., Fri. 18.00–20.15, Sat., Sun. 17.30–20.30 approx., Wed., Sun. also 15.00–16.00.

★ BELGIUM ★

RADIODIFFUSION-TELEVISION BELGE (RTB) BELGISCHE RADIO EN TELEVISIE (BRT) (Co.)

FI: By state grant-in-aids. **AD.:** Not allowed.

ADDR.: RTB or BRT, Place Eugène Flagey, 18, Brussels 5. **Cable:** INR- or NIR-TV. **Te.:** F. 48.81.20, Fl. 48.64.30. **Telex:** F. 02-437, Fl. 02-479. – **L.P.:** F. Prgr. Dir.: L. P. Kammans. Fl. Prgr. Dir.: P. Vandenbussche.

French Prgr.: Def. 819

	ch.F	kW	
Liège	3	100/25	H
Bruxelles (Wavre)	8	100/25	H
Bruxelles	7	5/1 W	H

Flemish Prgr.: Def. 625

	ch.E	kW	
Bruxelles (Wavre)	10	100/25	H
Antwerp	2	2/0.5	V
Ruiselede	2	100/25	H
Brussel	11	5/1 W	H

D. PRGR.: Mo.–Fri. 18.00–21.00, Sat., Sun. 13.00–21.00.

★ BULGARIA ★

BULGARIAN TELEVISION (Co.)

FI: By the State. – **ADDR.:** Alabin St. 29, Sofia. **Te.:** 8-42-61. – **L.P.:** Dir. Prgr.: B. Petrov. Dir. Tec.: G. Fratev. – **Station:** Ch. OIRT–VII 1.5/0.5 kW.

★ CZECHOSLOVAKIA ★

CZESKOSLOVENSKA TELEVIZE

FI: By the state. – **AD:** Approx. 10–15 mins. weekly.

ADDR.: Československá televize, Jindřisská 16, Praha 1. **Cable:** Televize. **Telex:** 400. **Te.:** 243341-9. – **L.P.:** Dir. Gen.: A. Hradecký. Dir. Prgr.: Dr. V. Feldstein. Dir. Prgr. Produce: J. Beneš. Dir. Tec.: F. Svejkovský. Dir. Production: J. Břinčil. Dir. For. Rel.: L. Kubiček. Dir. Slovak TV (Bratislava): J. Vrabec.

Stations: Ch. OIRT Polarisation: H.

Praha ch. 1 5/3 kW – Ostrava ch. 1 12/5 kW – Č. Budejovice ch. 2 12/5 kW – Bratislava ch. 2 12/5 kW – E. Bohemia ch. 6 10/4 kW – C. Moravia ch. 9 10/4 kW – W. Bohemia ch. 10 10/4 kW. – **Projected st's:** Banska Bystrica ch. 7 10/4 kW – Košice ch. 6 10/4 kW – C. Bohemia ch. 1 30/10 kW.

★ DENMARK ★

RADIO DENMARK (Co.)

FI: By license payments. – **ADDR.:** Television Service, Radio Denmark, Radiohuset, Rosenørnsallé, Copenhagen. **Cable:** Danradio. **Te.:** C. 647. – **L.P.:** Dir. Gen.: F. E. Jensen. Dir. Prgr.: J. Fr. Lawaetz.

Stations: Po.: H., exc. Vejle, Frederikshavn V. Ch. E.

Funen	3	10/3	Vejle	5	0.05/–	Frederikshavn	8	0.05/–
Copenhagen	4	10/3	South Seeland	6	60/20	Kolding	9	0.1/–
Ålborg	5	10/3	South Jutland	7	60/20	West Jutland	10	60/20
Bornholm	5	10/3	Århus	8	10/3			

D. PRGR.: 19.00–approx. 20.00. **Childrens H.:** Mo., Tues., Thurs., Fri. 16.00–16.30, Sat. 17.30–18.00.

★ FINLAND ★

SUOMEN TELEVISIO (Co. – limited comm. operation)

FI: By license payments and limited earnings from adv.

ADDR.: Pasila, Ilmala, Helsinki. **Cable:** See Sound Broadcasting. **Te.:** 413355. – **L.P.:** See Sound Broadcasting.

Stations: Ch. E. Po.: H.

Hämeenlinna	ch.	5	5/1	W	Tampere	ch.	8	80/16 kW
Kotka	ch.	5	5/1	W	Lahti	ch.	9	40/8 kW
Kouvola	ch.	5	5/1	W	Pori	ch.	9	200/40 W
Rauma	ch.	5	1/0.2	kW	Tammela	ch.	10	200/40 W
Tammisaari	ch.	5	400/80	W	Lohja	ch.	11	5/1 W
Helsinki	ch.	6	10/2	kW	Riihimäki	ch.	11	5/1 W
Mikkeli	ch.	6	150/30	W	Valkeakoski	ch.	11	5/1 W
Turku	ch.	7	45/9	kW				

D. PRGR.: Tues., Wed., Fri. 10.00–10.30, D. approx. 17.00–20.00. – **Projected station:** Ylöjärvi ch. E8 100/20 kW (to replace Tampere).

Oy Mainos-TV-Reklam Ab:

An independent TV company for commercial prgr., to which the Finnish TV rents out its studios and channels.

The daily advertising is made only in the beginning and at the end of the programmes. – **L.P.:** P. Hanski.

OY TESVISIO AB (Comm.)

FI: By adv. Commercials (spots) up to 10% (limited number of sponsored prgrs.). Adv. are placed between the various prgr's and Tesvisio transmit up to six mins. of commercial spots per tr. – **ADDR.:** Ratakatu 9, Helsinki. **Cable:** Tesvisio. **Te.:** 626200. – **L.P.:** Dir. Gen.: V. J. Nurmimaa. Dir. Prgr.: K. Ehder. Dir. Tec.: K. Teräsvuo. – **Station:** TES, Helsinki ch. E8 3/0.5 kW, H. – **D. PRGR.:** Mo. 17.30–18.30, Tues. 18.15–20.00, Wed. 15.30–16.30, Thurs. 15.00–16.30, Fri. 17.30–19.30, Sat. 20.00–22.00, Sun.: 07.30–09.00, 14.30–16.00.

★ FRANCE ★

RADIODIFFUSION-TELEVISION FRANÇAISE (Co.)

ADDR.: 107, rue de Grenelle, Paris 7. – **L.P.:** Dir. Gen.: Chr. Chavanon. Dir. Gen. adjoint: R. Ergmann. Dir. Prgr. TV: A. Ollivier. Dir. Inf., de l'Actualité et des Emissions Extérieures: R. Thibault. Dir. Intern. Rel.: J. D'Arcy. Adjoint: M. Robida. Chef du Service l'Exploitation (Radio & TV): Claude Mercier.

Regional stations: Powers Sound = 1/4 Vision powers indicated.

	ch.F	kW
1 Bastia/Serra di Pigno	2	0.05V
2 Caen/M. Pinçon	2	20H
3 Limoges/Les Cars	2	20H
4 Ajaccio/La Punta	4	0.05H
5 Nantes/Hte-Goulaine	4	20V
6 Reims/Hautvillers	5	10V
7 Rennes/St. Pern	5	20H
8 Strasbourg/Lauth	5	3H
9 Toulouse/Pic du Midi	5	0.5H
10 Cannes/Pic de l'Ours	6	3V
11 Clermont-Ferrand/Puy-de-Dôme	6	10V
12 Metz/Luttange	6	10H
13 Le Havre-Harfleur	7	0.05H
14 Nancy/Vandoeuvre	7	0.05V
15 Lille/Bouvigny	8A	20H
16 Paris/Tour Eiffel	8A	20H
17 Marseille/Gr. Etoile	8	20H
18 Mulhouse/Belvéd.	8	20H
19 Bourges/Neuvy-2-Clochers	9	20H
20 La Rhune/Pays Basque	9	0.05V
21 Bordeaux/Bouliac	10	0.5H
22 Dijon/Nuits-St. Georges	10	0.5V
23 Grenoble/Chamrousse	10	0.05H
24 Rouen/Grand-Couronne	10	10H
25 Toulouse/Pechbonnieu	10	0.05H
26 Amiens/Bouvigny	11	20V
27 Aurillac/La Bastide	11	0.5V
28 Le Mans/Mayet	12	10V
29 Lyon/Mont Pilat	12	20H
30 Fonfrede/Ceret	12	0.05H

Relay stations: The figures refer to the regional st's above. Powers are indicated in Watts.

2: Cherbourg ch. 12 500 W, H. – 3: Cognac ch. 5 0.3 W, V. –
6: Mezieres ch. 8A 500 W, V. – Bar-le-Duc ch. 12 3 W, V.
7: Vannes ch. 12 500 W, H. – Perros-Guirec ch. 12 3 W, H.
9: Lourdes ch. 11 3 W, H. – Luz ch. 12 0.3 W, V (+Bareges ch. 8 0.3 W, H). – Argelès ch. 9 3 W, V.
10: Nice ch. 11 50 W, V. – Draguignan ch. 11 0.3 W, V. – Menton ch. 11 3 W, V.
12: Epinal ch. 12 40 W, V. – Longwy ch. 12 40 W, V. – Saint-Die ch. 12 3 W, H. – Sarreguemines ch. 12 0.3 W, V. – Vittel ch. 12 3 W, H. – Verdun ch. 12 3 W, H. – Villerupt ch. 11 3 W, H.
15: Boulogne ch. 4 40 W, V.
17: Toulon ch. 11 40 W, H (+Myeres ch. 4 40 W, V). – Ales ch. 11 3 W, V. – Digne ch. 11 3 W, V. – Gap ch. 11 40 W, V. – Apt ch. 11 0.3 W, H.
19: Auxerre ch. 6 3 W, H. – La Bourboule ch. 9 0.015 W, V.
21: Arcachon ch. 6 3 W, V.
22: Besancon ch. 5 3 W, H. – Lons-le-Saunier ch. 6 3 W, H. – Salins ch. 5 3 W, H. – 24: Fecamp ch. 6 3 W, H.
29: Annecy ch. 8 3 W, H. – Chamonix ch. 6 3 W, H. – Gex ch. 7 40 W, V. – Megeve ch. 7 10 W, V. – St. Etienne ch. 8 40 W, H. – St. Gervais ch. 9 10 W, H. – St. Laurent-du-Pont ch. 8 0.3 W, H. – Voiron ch. 7 3 W, V. – Die ch. 7 0.3 W, H. – Lyon ch. 5 500 W, H (+ Tarare ch. 9 3 W, H). – Le Puy ch. 5 3 W, H. – Chambery ch. 6 40 W, V. – Nantua ch. 6 3 W, H. – St. Peray ch. 7 0.3 W, H.

Projected st's: (1960–61): Regional st's: Niort / Maisonnay / Besancon

/ Lomont / Troyes / Les Riceys / Gex/Montrond / Carcassonne / Pic de Nore / Brest/Roc Trédudon. – **Relay st's:** Bolbec/Hopital / Lillebonne/St. Jean / Lisieux/St. Désir / Eu/Mers les Bains / Autun/St. Sébastien / Nolay/Rose Chateau / Le Puy/M. Denise / Le Creusot/Montcenis / Grenoble/Chamrousse / Villeneuve-sur-Lot/Montfabes.

D. PRGR.: Paris (relayed by Dijon, Lille, Lyon, Marseille, Mulhouse, Nancy, Nantes, Rennes, Rouen, Strasbourg): Sun.: 09.00–12.30, 14.30–21.50 (approx.), W.: 11.30–12.30, 18.15–22.05 (approx.). (Thurs. also 15.30–18.15, Sat. 09.30–11.30, 16.00–18.15, 22.05–22.40 approx.).

Radio relay links between: Paris–Lille, Paris–Rouen–Le Havre–Caen–Rennes–Nantes, Paris–Reims–Metz(–Luttange)–Nancy–Strasbourg–Mulhouse. Paris–Perreuse–Dijon–Lyon–Marseille–Cannes. Lyon–Clermont Ferrand–Grenoble–St. Etienne. Paris–Perreuse–Bourges–Limoges and Bourdeaux–Toulouse–Pic du Midi–Metz–Luxembourg, Dabo–Hornisgrinde (Germany), Lille–Cassel–Dover.

The information concerns France Metropolitan only. For information about Algerie: See Algerie.

★ GERMANY ★

GERMAN FEDERAL REPUBLIC

A common programme is being broadcast throughout Germany under the title "Deutsches Fernsehen". Each of the organizations participates in the production of this prgr. In addition a number of regional broadcasts are transmitted by each of the broadcasting organizations.

Community television prgr. daily approx: W.: 16.00–17.00, 19.00–21.00. Sun. additionally 11.00–14.00 and longer afternoon-prgrs. in case of sport-events. **Testtr.** approx. 08.00–16.00.

ADDR.: Fernseh-Kommission der Arbeitsgemeinschaft der Westdeutschen Rundfunkanstalten, Hessischer Rundfunk, Frankfurt a/M

L.P.: Coordinator of German TV: Dr. Clemens Münster, Bayerischer Rundfunk.

FI.: By license payments and adv. – **AD.:** Each of the German broadcasting organizations fix a price for adv. in relation to the number of viewers in their respective areas. The approx. transmission times for adv. are at present as follows: **BR:** W. 17.45–19.00 – **HR:** 17.45–18.00, 18.25–19.00 – **NDR:** W. 18.25–19.00; from 1961 also 18.00–18.05 – **R. Bremen:** See Sound Broadc. – **SDR:** W. 18.25–19.00 – **SWF:** W. 18.25–19.00 – **Saarländischer Rundfunk:** W. 18.25–19.00 – **Sender Freies Berlin:** W. 17.45–19.00 – **WDR:** W. 18.25–19.00.

BAYERISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

FI: By license payments. **AD.:** D. (exc. Sun.) max. 12 mins.

ADDR.: Fernsehdirektion des Bayerischen Rundfunks, Rundfunkplatz 1, Funkhaus, München 2. – **Studio:** Floriansmühlstr., München-Freimann. – **L.P.:** Intendant des Bayerischen Rundfunks: Dr. Franz Stadelmeyer. Dir. TV: Dr. Clemens Münster. Dir. Adm.: H. Spies. Dir. Tec.: Dr. F. Daser.

Stations:	ch.E	kW		ch.E	kW
Grünten	2	100/20H	Brotjacklriegel	7	100/20V
Kreuzberg	3	100/20V	Wendelstein	10	100/20H
Ochsenkopf	4	100/20V	Würzburg	10	1/0.2H
Dillberg	6	100/20H	Hohenpeissenb.	14	10/2H

Low power stations:

	ch.E	Watts		ch.E	Watts
Bad Reichenhall	5	5/1H	Grassau	7	6/1.2H
Bad Tölz	5	3.5/0.7V	Landshut	7	4/0.8V
Eichstätt	5	5/1H	Kreuzeck	10	2/0.4V
Tegernsee	5	2/0.4H	Kulmbach	10	2/0.4H
Hohe Linie	5	50/10V	Wunsiedel	10	10/2H
Kelheim	5	10/2H	Bamberg	11	20/4H
Rothenburg	5	5/1H	Berchtesgaden	11	2/0.4H
Bad Berneck	6	1.5/0.3V	Füssen	11	2/0.4H
Rauschberg	7	2/0.4V	Neustadt/A.	11	2.5/0.5H
Passau	7	20/4V			

Projected st.: Hoher Bogen UHF-band 5, begin 1961. Moreover numerous satellit st's.

Testtransmissions: 09.00–11.00, 12.00–15.50, Sat. 12.00–15.50.

HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

Addr.: Bertramstrasse 8, Frankfurt am Main. **Cable:** Hessfunk. **Te.:** 59051. – **L.P.:** Intendant: E. Beckmann. Dir. TV.: W. Hess. Dir. Tec.: Dr.-Ing. F. Miseré. TV Play & Entertainment: H. O. Grünefeldt. TV-Actualities: O. Meitzner.

Stations: Feldberg ch. E8 100/20 kW. H. – Meissner ch. E7 100/20 kW. H. – Biedenkopf ch. E2 20/3 kW. V. d.

Frequency changers: Po.: H. [1]) Directional aerial.

	ch.	Watts		ch.	Watts
Marburg[1])	11	30/6	B. Schwalbach[1])	5	0.5/0.1
Dillenburg	5	0.75/0.15	Haiger[1])	6	1/0.2
Bad Orb[1])	10	1/0.2	Wetzlar[1])	11	1/0.2
Hardberg[1])	5	1000/200	Birkenau/Odw.[1])	11	1/0.2
Erbach/Odw.	6	0.75/0.15	Höchst/Odw.[1])	11	1/0.2
Michelstadt[1])	11	1/0.2			0.5/0.1
Philippsthal[1])	9	1/0.2	Salmünster[1])	11	3/0.6
Kammerforst[1])	9	3/0.6			1/0.2

D.Prgr.: Testtransmissions: Mo.–Sat. 09.00–11.00, 12.00–15.50.

RADIO BREMEN (Anstalt des öffentlichen Rechts)

FI.: By license payments. **AD:** D. (exc. Sun.) max. 12 mins.

Addr.: Heinrich Hertzstr. 13, Bremen. **Cable:** Radio. **Te.:** 444041 – **L.P.:** Intendant: H. Kerneck. Dir. Prgr.: H. Friedrich. Dir. Tec.: A. Olshausen. TV Dept.: H. H. Isenbart.

Stations: Bremen-Stadt ch. E16 10/2 kW.H. – Bremerhaven ch. E5 – 30/6 Watts. V. – **D.Prgr.:** Mo. 12.00–15.45, Tues.-Fri.: 09.00–11.00, 12.00–15.45, Sat. 09.00–11.00.

NORD- UND WESTDEUTSCHER RUNDFUNKVERBAND FERNSEHEN

("Gemeinnützige Körperschaft des öffentlichen Rechts": corporation for public benefit.)

FI.: By license payments. – **Members:** Der Norddeutsche Rundfunk, Hamburg; der Westdeutsche Rundfunk, Köln. – Der Nord- und Westdeutsche Rundfunkverband is committed to produce 46% of the German TV program, whereof 23% are to be produced by the NWRV Hamburg and 23%by the NWRV Köln. – **L.P.:** Geschäftsführer: Dr. Georg Hubrich (Rothenbaumchaussee 132/134, Hamburg). – Nord- und Westdeutscher Rundfunkverband will be separated 31.3.1961.

NWRV HAMBURG

Addr.: Hamburg–Lockstedt, Gazellenkamp 57. **Tel.:** 58 02 21 – **L.P.:** Intendant: Dr. Walter Hilpert. Persönlicher Referent: Dr G. Krollpfeiffer. Prgr. Dir.: Dr. H. Arnold. Stellvertreter des Prgr. Dir.'s and Referent des Koordinators für Eurovision: H. von Plato. Presse: Hanns Ruppersberg. Zeitgeschehen und Nordschau: R. Proske. Tagesschau: Hans-Joachim Reiche. Fernsehspiele und Fernseh-Dramaturgie: Egon Monk. Musik: Winfried Zillig.

Stations	ch.E.	kW (video)		Stations:	ch.E.	kW(video)	
Oldenburg/ Steinkimmen	2	100	H.	Hamburg	9	100	H.
Flensburg	4	50	H.	Heide	10	25	V.
Kiel	5	5	H.	Harz	10	100	H.
Hannover	8	5	H.	Lingen	17	35	H.
Frequency-changers:		**Watts** video				**ch.E. Watts** video	
Goslar/Oker	5	5	H.	Holzminden	8	4	H.
Osnabrück	5	60	V.	Braunlage	8	1	H.
Hameln/Weser	5	12	V.	Hann.Münden	8	10	H.
Cuxhaven	6	100	V.	Uslar	8	1	V.
Bad Harzburg	7	1	H.	Bad Sachsa	11	5	H.
Lübeck	7	300	V.	Göttingen	9	60	V.

Projected st.'s: 1. Prgr.: Band IV/V: Bungsberg 200 kW (end 1960). Dannenberg 200 kW (begin 1961). Aurich/Ostfriesland 200 kW (spring 1961). **2. Prgr.:** Ch. 46 Hamburg 400 kW (end 1960). Ch. 49 Kiel 30 kW (end 1960). Ch. 53 Harz/West 400 kW (end 1960).

D.Prgrs.: Testtransmissions: Hamburg: Mo. 12.00–15.45, Tues.-Fri. 09.00–11.00 & 12.00–15.45, Sat. 09.00–11.00. – **Regional Prgr.:** W. 17.45–18.35 – S. 18.00–18.30. – Adv.TV: W. 18.25–19.00.

NWRV KÖLN

Addr.: Köln, Wallrafplatz 5. **Cable:** WDR. **Te.:** 2841. **Studios:** Funkhaus – Köln – **L.P.:** Intendant: Hanns Hartmann. Dir. Prgr.: H. J. Lange. Chief Editor: K. Mahlo. Adm.: B. Berendt. Techn. Leiter: Horst A. Krieger. Press and Information: Josef Rick.

Stations:	ch.E.	kW		Stations:	ch.E.	kW	
Aachen-Stolb.	16	20/4	H.	Münster	18	110/22	H.
Bonn*)	5	0.5/0.1	H.	Nordhelle	14	5/1	H.
Kleve	15	10/2	H.	Teutoburger Wald	11	100/20	H.
Langenberg	9	100/20	H.	Wuppertal*)	6	0.6/0.12	H.

+ 65 low power frequency changers. *) Satellite st.'s.

D.Prgr.: Testtr.: Köln: W.: 09.00–11.00, 12.00–17.00. – **Regional-Prgr.:** D. 17.45 (Sun. 18.00) – 18.25 – Adv.TV.: 18.30–19.00. – **Common Prgrs.:** 19.00 (Sun. 18.30) – 21.00. On Sun- and Weekdays at irregular times special tr., outside broadcasts, etc.

SAARLÄNDISCHES FERNSEHEN A. G. (Comm.)

FI.: By license payments and adv. **AD.:** 8 mins. – **Addr.:** Martin Lutherstr. 12, Saarbrücken. Intendanz: Schloss Halberg. **Cable:** Rundfunk Saar. **Te.:** 6 5742 – **L.P.:** See Sound Broadcasting. – **Stations:** Göttelborner Höhe ch. E2 100/20 kW, V. – Merzig ch.E11 035/0.7 Watt, H. – **D.Prgr.:** "Werbesendung" 18.25-19.00.

SENDER FREIES BERLIN

FI.: By license payments. – **Addr.:** Fernsehen, Reichskanzlerplatz 7–11, Berlin–Charlottenburg 9. **Cable:** Sender Freies Berlin. **Te.:** 92 02 51. – **L.P.:** Intendant: W. Steigner, Dir. Prgr.: H. H. Fischer. Dir. Tec.: Dipl. Ingl. U. Blässer. – **Station:** Berlin-Witzleben ch. E7 50/10 kW.

SÜDDEUTSCHER RUNDFUNK FERNSEHEN (Anstalt des öffentlichen Rechts)

FI.: By license payments. – **Addr.:** Neckarstrasse 145, Stuttgart. **Cable:** Südfunk. **Te.:** 299701. – **L.P.:** TV-Dir.: H. Jaedicke. Dir.Tec.: Dr. H. Rupp. – **Stations:** Stuttgart ch.E11 100/20 kW, H – Aalen ch.

E8 20/4 kW, V – Pforzheim ch.E5 0.05/0.01 kW, H*) – Waldenburg ch.E9 100/20 kW – Heidelberg ch.E7 50/10 kW, V – Ulm ch.E11 0.03/0.006 kW, V*) Geislingen ch.E6 0.003/0.0006 kW, V.*)
*) Frequency changers.

SÜDWESTFUNK (Anstalt des öffentlichen Rechts)

FI.: By license payments. **AD:** D. (exc. Sun.) max. 12 mins.
Addr.: Südwestfunk Fernsehen, Hans Bredowstr., Baden-Baden.
Cable: Südwestfunk. **Te.:** 761. – **L.P.:** See Sound Broadcasting.

Stations:	ch.E.	kW		ch.E	kW
Raichberg	4	40/8d.	Baden Baden	7	0.3/0.06d.
Trier	5	0.6/0.12H.	Hornisgr.	9	100/20d.
Koblenz	6	50/10d.	Feldberg	8	100/20d.
K'lautern	7	0.3/0.06d.H.	Weinbiet	10	50/10d.
Zweibrücken	7	0.08/0.01d. H.	Eifel	15	20/4d.H.
Freiburg	7	0.021/0.04[1])d.H.	Haardtkopf	17	200/40H.

+64 low power – freq. changers. [1]) freq. changer.
D.Prgr.: 16.00–17.00, 18.00–21.00 (Regional prgr.: 18.00–19.00).

★ GERMAN DEMOCRATIC REPUBLIC ★

DEUTSCHER FERNSEHFUNK (Go)

FI.: By state. – **AD:** Twice weekly before 18.00.
Addr.: Deutscher Fernsehfunk, Berlin-Adlershof, Rudower Chaussee 116. **Cable:** Fernsehfunk Berlin. **Te:** 642021. – **L.P.:** Intendant: Heinz Adameck. Prgr. Leitung: Walter Heynowski. Techn. Leitung: Wolfgang Günter.
Stations: Berlin E5 – Brocken E6 – Cottbus E4 – Helpterberg E3 – Inselsberg E5 – Karl Marx-Stadt E8 – Leipzig E9 – Marlow E8 – Schwerin E11–Dresden E10.
D.Prgr.: Test-transmissions: approx. 12.00–14.00. Prgs.: Mo.-Fri. approx.: 09.00–11.00, 14.00–15.00, 17.00–21.00, Sat. approx. 09.00–11.00, 13.00–22.00, Sun. approx. 09.00–21.00. **Experimental tr.:** Mo.-Sat.: 11.00–14.00, 15.00–17.00.

★ GREAT BRITAIN ★

BRITISH BROADCASTING CORPORATION

The BBC's *Television Service* is an integral part of the British Broadcasting Coporation.
ADD., L. P.: See Sound Broadcasting.

Stations	ch.B.	kW			ch.B.	kW	
Divis	1	12	H.	Blaen plwyf.			
Crystal Palace	1	200	V.	(W. Wales)	3	1–3ø)	H.
Thrumster[6])	1	0.25–7ø)	V.	Sandale	4	10–28ø)	H.
Holme Moss[2])	2	100[1])	V.	Les Platons[4])	4	1	H.
Dover (temporary)	2	0.1–0.33ø)	V.	Sutton Coldf.	4	100	V.
Brighton	2	0.04–0.4ø)	V.	Folkstone	4	0.007 max.	H
Londonderry[8])	2	0.5–1.5ø)	H.	Meldrum	4	4–17ø)	H.
No. Hessary Tor	2	1.5–15ø)	V.	Wenvoe	5	100	V.
Rosemarkie	2	0.5–1.5ø)	H.	Pontop Pike	5	12	H.
Kirk o'Shotts[3])	3	100	V.	Douglas[7])	5	0.18–2.8ø)	V.
Tacolneston[5])	3	1.3–15ø)	H.	Peterborough	5	1	H.
Rowridge[9])	3	1–32ø)	V.	Orkney	5	4–14ø)	V.

* These 23 st's serve nearly 99% of the United Kingdom population.
[1]) London [2]) Nr. Huddersfield [3]) C. Scotland [4]) (Channel Islands) [5]) Norwich [6]) N.E.Scotland [7]) Isle of Man [8]) N.Ireland [9]) Isle of Wight ø) Directional transmitting aerial. **D.Prgr.:** All stations: Trade Testtransmission: Mo.-Sat. 10.00–13.00. Prgr. Hours: approx.: Mo.-Fri. 14.00–15.30, 17.00–23.05, Sat. 13.45–23.00, Sun. 14.00–18.15, 19.00–23.00.

INDEPENDENT TELEVISION AUTHORITY (I.T.A.) (Comm.)

FI.: Programme contractors financed solely from advertising revenue. I.T.A. financed solely from rentals paid by contractors. – **AD:** 6 mins. per h. averaged over the day. Max. in any 1 h. 7½ mins. from 5. Sept. 1960 and 7 mins. from 19. Dec. 1960.
Addr.: 14, Princes Gate, London, S.W.7. **Te.:** Knightsbridge 5341. – **L.P.:** Chairman: Sir I. Kirkpatrick, G.C.B., G.C.M.G. Dir. Gen.: Sir Robert Fraser, O.B.E., B.Sc. Inf.Officer: M. Hallett, B.A.

Stations:	ch.	Po.	kW	Area served
Croydon	9	V	120/30	London
Lichfield	8	V	200/50	Midlands area
Winter Hill	9	V	100/25	⎫
Emley Moor	10	V	200/50	⎭ Norths area
Black Hill	10	V	475/120	C. Scotland
St. Hilary	10	V	200/50	S. Wales, W. England
Chillerton Down	11	V	100/25	C. Southern England
Burnhope	8	H	100/25	N.-Ea. England
Mendlesham	11	H	200/50	Ea. Anglia area
Black Mountain	9	H	100/25	Northern Ireland
Dover	10	V	100/25	So.-Ea. England
Stockland Hill	9	V	100/25	So.We.England
Caradon Hill	12	V	200/50	So. We. England
Caldbeck	11	H	100/25	⎫ The Borders
Selkirk	13	V	25/6	⎭ (under construction)
Mongour	9	H	400/100	⎫ N. Ea. Scotland
Roskill	12	H	50/12	⎭ (under construction)

Prgr. Companies: A.B.C. TV, Ltd. – Associated-Rediffusion, Ltd. – Associated TV Ltd. – Granada TV Network Ltd. – Scottish TV Ltd. – Independent TV for South Wales & the West of England (T.W.W.) Ltd. – Southern TV Ltd. – Tyne Tees TV. Ltd. – Anglia T.V. Ltd. – Ulster T.V. Ltd. – Independent T.V. News Ltd. – Westward T.V. Ltd. – Border T.V. Ltd. – Channel Islands Communications (T.V.) Ltd. – North of Scotland T.V. Ltd. – **D. Prgr.:** Mo.-Fri.: 16.45–23.30, Sat. 13.00–23.00, Sun. 13.15–22.30. – **Future Plans:** West Wales.

★ HOLLAND ★

NEDERLANDSE TELEVISIE STICHTING (Go. – Foundation)

Addr.: Postbox 10, Hilversum. **Cable:** Televisie. **Te.:** 0 2950/16851. – **L.P.:** Pres.: E. A. Schüttenhelm. Vice Pres.: Mr. A. B. Roosjen. Gen. Secr.: Drs. E. H. J. van Waesberge. Dir. Fin. DRS.: A. J. J. van der Made. Dir. Prgr.: J. W. Rengelink. Dir. Tec.: Mr. A. H. van de Veen.
Stations: Lopik ch. E4 20/4 kW, H – Goes ch. E7 5/1 kW, H – Markelo ch.E7 30/6 kW, H – Irnsum ch.E6 25/5 kW, H – Roermond ch.E5 50/10 kW, H – Smilde ch.E6 50/10 kW. – **D. Prgr.:** Sun., 19.00–21.30, Mo. 19.00–21.05, Tues. 19.00–21.20, Wed. 16.00–16.30, 19.00–21.20, Thurs., Fri. 19.00–21.20, Sat. 16.00–16.30, 19.00–21.20.

★ HUNGARY ★

MAGYAR RADIO ES TELEVIZIO (Go.)

FI.: *By the state.* – **Addr.:** *Television Direction, V. Szabadsagter 5,* Budapest. **Te.:** 113–200. – **L.P.:** Dir.: Ferenc Kulcsar, Deputy-Dir.s: G. Sándor, D. Révai. Chief Eng.: F. Benkö.

STATIONS: Ch. OIRT

ch.	kW	ch.	kW	ch.	kW
Budapest I	30/10	Miskolc IX	0.05/0.01	Sopron IX	0.05/0.01
Pécs II	5/1.5	Szentes XI	20/10		

New st.'s: Tokaj ch.IV 0.5/0.25 kW. Kékes ch.VIII 5/1 kW. – **D.Prgr.:** Tues., Wed., Thurs., Sat.: 17.00–22.00, Sun. 09.00–11.00, 15.00–22.00.

★ IRELAND ★

Projected station: Dublin (Mt. Kippure) ch.E7 60 kW. 1961. Comm. and public service outlet.

★ ITALY ★

RADIO-TELEVISIONE ITALIANA (State Service granted by public act to R.A.I.)

FI.: By license and AD. – **AD:** D. 15 mins. of each programmes.
Addr.: Direzione Centrale TV, via del Babuino 9, Roma. – **L.P.:** Dir. Prgr.TV: Dr. Sergio Pugliese. Dir. Tec.TV: Eng. Sergio Bertolotti. Dep. Dir.'s Tec. TV: Eng. L. Sponzilli, Eng. Gino Orsini.

STATIONS:

PIEMONTE: Plateau Rosa ch.H 1.6/0.4 kW, H. – Torino ch.C 16/4 kW, H. + 26 low power st's.

LOMBARDIA: Milano ch.G 24/6 kW, H. – M. Penice ch.B 100/25 kW, H. + 27 low power st's.

TRENTINO – ALTO ADIGE: Bolzano ch.D 1.6/0.4 kW, H. – Cima Penegal ch.F 0.4/0.1 kW, H. + 28 low power st's
VENETO: Comelico ch.G 45/11 kW, H. – M. Venda ch.D 100/25 kW, H. + 30 low power st's.
FRIULI – VENEZIA GIULIA: Claut ch.F 600/150 kW, H. – Trieste Muggia ch.G 1.4/0.35 kW, H + 7 low power st's.
LIGURIA: Portofino ch.H 127/32 kW, H + 19 low power st's.
EMILIA – ROMAGNA: Gorfigliano ch.H, 4/1 kW, V + 29 low power st's.
TOSCANA: M. Argentario ch.E 2.5/0.7 kW, H. – M. Serra ch.D 270/70 kW, H. – Pietrasanto ch.A 1000/250 kW, H. – San Cerbone ch.G 4.8/1.2 kW, H. – Val di Peio ch.E 32/8 kW, H + 34 low power st's.
UMBRIA: Gubbio ch.E 32/8 kW, V. – M. Peglia ch.H 32/8 kW, H. – **Low power st.'s:** Cascia ch.E, Po. V. – Nordia G, H – Spoleto F, H – Terni F, V.
MARCHE: M. Conero ch.E 24/6 kW, H. – M. Nerone ch.A 34/85 kW, H + 17 low power st's.
LAZIO: Monreale ch.D 40/10 kW, V. – Roma ch.G 36/9 kW, H. – + 22 low power st's.
ABRUZZI E MOLISE: Low power st.'s: Barrea ch.E, Po. V. – Campobasso E, V – Campo Imperatore D, H – Campotosto G, V – Casoli D, H – Castel di Sangro G, H – Cercemaggiore F, V – Fucino D, V – Isernia G, V – Larino D, V – Lucoli F, H – Monteferrante A, H – M. Cimarani F, H – M. Patalecchia E, H – Montorio al Vomano G, V – Oricola E, H – Pescara F, H – Pietra Comiale D, V – Roccaraso F, H – Scanno H, V – Sulmona E, V – Teramo D, V – Torricella Peligna G, H – Vasto G, V.
CAMPANIA: *Golfo di Salerno* ch.E 4.03/1 kW, V. – M. Faito ch.B. 40/10 kW, H. – M. Vergine ch.D 1/0.25 kW, H + 14 low power st's.

PUGLIA: Martina Franca ch.D 220/55 kW, H. – M. Caccia ch.A 34/8.5 kW, H. – M. Sambuco ch.H 35/8.5 kW, H. – Salento ch.H 1.8/0.45 kW, V + 6 low power st's.
BASILICATA: Acri ch.H 4/1 kW, V + 9 low power st's.
CALABRIA: Capo Spartivento ch.H 2.5/0.5 kW, H. – Gambarie ch.D 19/4.8 kW, H. – M. Scuro ch.G 8/2 kW, H. – Roseto Capo Spulico ch.F 12/3 kW, V. – S. Marco Argentano ch.H 21/5 kW, H. – + 10 low power st's.
SICILIA: M. Cammarata ch.A 35/8.8 kW, H. – M. Lauro ch.F 50/12.5 kW, H. – M. Pellegrino ch.H. 8/2 kW, H. – M. Soro ch.E 5/1.2 kW, H. – Pantelleria ch.G 24/6 kW, V. – Scicli ch.H 0.4/0.1 kW, V. – Trapani ch.H 1.2/0.3 kW, V + 18 low power st's.
SARDEGNA: M. Limbara ch.H 3/0.7 kW, H. – P. Badde Urbara ch.D 145/36 kW, H + 19 lov power st's.
D.PRGR.: W. 12.30–15.05 ("Telescuola") – for schools, 16.00–17.00 (Childrens H.), 17.30–22.00 (approx.). – **N.:** 17.30, 19.30, 22.00. Sun.: 09.15–11.00, 15.00–23.00.
Link connections with foreign countries: Italy-France: Milano-Monte Bignone-Pic de l'Ours. – **Italy-Switzerland:** Milano-Monte Generoso-Uetliberg. – **Italy-Jugoslavia:** Trieste-Monte Nanos-Ljubljana.

★ LUXEMBOURG ★

TÉLÉ LUXEMBOURG (Comm.)

FI.: Income from adv. – **Addr.:** Compagnie Luxembourgeoise de Télédiffusion, Villa Louvigny, Luxembourg. **Cable:** Radio-Luxembourg. **Te.:** 25881. – **L.P.:** Dir. Gen.: M. Felten. Dir. Prgr.: J. Luc. Dir. Tec.: N. Schmidt – **Station:** Def. 819, ch. E7, 100/20 kW, H. – **D.** Prgr.: Mo. 18.00–21.30, Tues. 18.00–21.30, Wed. 18.00–22.15, Thurs. 16.00–21.30, Fri. 18.00–22.15, Sat. 16.00–21.30.

★ MONACO ★

TÉEÉ MONTE-CARLO (Comm.)

FI.: By advertisements. – **Addr.:** 16 Blvd. Princesse Charlotte, Monte Carlo. **Cable:** Tele Carlo. **Te.:** 30.39.40. – **L.P.:** Dir. Gen.: M. Micheo. **Stations:** Ch.F10 50/10 kW. – **Projected st.:** Ch.F2 H. – **D.Prgr.:** D. 19.00–22.00.

★ NORWAY ★

NORSK RIKSKRINGKASTING (Go.)

FI.: By license payments. – **Addr.:** See Sound Broadc. – **L.P.:** Dir. Gen.: K. Fostervoll. Chief of Planning: O. Granlund. Dir. Prgr.: O. Nes. Dir. Tec.: T. Navelsaker.
Stations ch.E. Po. H: Oslo 6 10/2 kW. – Bergen 9 100/20 kW. – Kongsberg 4 1/0.2 kW. – Drammen 9 3.3/0.7 Watts – Kongsvinger 9 4/0.8 Watts – Larvik 9 1.5/0.3 Watts – Sandefjord 10 1.5/0.3 Watts – Skien 10 50/10 Watts.
D.Prgs.: Testpicture W. 10.00–15.00. Prgrs.: D. 18.30–19.30.

★ POLAND ★

POLSKIE RADIO (Go.)

FI.: By the state. – **Addr.:** Telewizja, Plac Powstánców Warszawy 7, Warszawa. **Cable:** Telewar. **Te.:** 6–52–71. – **L.P.:** Pres.: W. Sokorski. Vicepres., Engineering: K. Kozlowski. Dir. TV: J. Panski. Chief Eng.: J. Rutkowski. Prgr. Exchange: Mrs. K. Zebrowska.
Stations: Polarisation H. Ch. OIRT. *) Satellite st.s.

	ch.		kW		ch.		kW
Warszawa ch.	2	7.5/3	kW	Szczecin ch.	9	1/0.25	kW
Gdansk –	3	4/1.25	–	Olsztyn –	6	0.15/0.05	–
Katowice –	8	225/75	–	Kielce*) –	1	0.32/0.1	–
Lódz –	6	2.5/0.8	–	Zakopane*) –	6	0.002/0.001	–
Poznan –	7	1.5/0.4	–	Kraków*) –	10	0.008/0.002	–
Wroclaw –	12	123/30	–				

Link-connections: Warszawa-Gdansk, Warszawa-Lódz-Katowice-Wroclaw-Poznan, Katowice-Ostrava/Czechoslovakia, Wroclaw-Görlitz/G.D.R.
D.Prgr.: D. exc. Tues. 16.00–22.00. – **F.PL.:** St.'s in Bydgoszcz, Lublin, Rzeszów.

★ PORTUGAL ★

RTP – RADIOTELEVISAO PORTUGUESA, S.A.R.L. (Comm.)

Portuguese Go.: 1/3 of the shares. **FI:** License payments and adv.s – **Addr.:** Head Office:Rua de S. Domingos (à Lapa) 26, Lisboa. **Studio:** R. Particular à Alamada das Linhas de Torres 44. – **Porto:** Santo Ovidio, Vila Nova de Gaia. **Cable:** Televisão. **Te.:** 666134. – **L.P.:** Pres. for the Board of Dir's:. Eng. C. Lemos de Mendonça. Board of Dir's.: Major J. B. Moniz, M. Lopes da Cruz, Dr. Luis Athayde, Eng. M. Bivar. Gen. Mgr.: Eng. Barradas da Silva. Eng. Dept. Mgr.: Eng. B. Machado. Prgr. Dept. Mgr.: Dr. C. de Carvalho.
Stations: Ch. E.: Lisboa (Monsanto) 7 100/20 kW. H. – Porto (M. da Virgem) 9 100/20 kW. H. – Coimbra (Lousã) 3 60/12 kW. H. – Montejunto 6 1/0.2 kW. H. – Monchique (Foia) 5 6.5/1.3 kW. H. and several rpt. st's. in work and under installation. – **D.Prgr.:** W. 20.30–23.15. Sun. 17.30–19.00, 20.30–23.15.

★ RUMANIA ★

RADIODIFUZIUNEA TELEVIZIUNEA ROMINA (Go.)

Addr.: Studioul de Televiziune, Str. Molière 2, Bucuresti. **STATIONS:** Po=H. Ch.=OIRT. – Bucuresti ch. II 20/10 kw (Main st.) – Bacau ch. I 0.6/0.3 kw (relay) – Orasul Stalin ch. III 0.1 kw – Pitesti ch. IV 0.025 kw – Bîrlad ch. VIII 0.01 kw – **D. PRGRS:** Sun. 07.00–10.00, 17.00-21.00. Tues, Thurs., Sat. 17.00–21.00. Wed. 14.00–17.00

★ SPAIN ★

TELEVISION ESPAÑOLA (Go.)

Addr.: Avenida de la Habana 77, Madrid. – **L.P.:** Dir. Gen. Radio and TV: Ilmo Sr. D. J. Maria Revuelta Prieto. Sub-Dir. Gen.: Ilmo Sr. D. Joaquim Sanchez Cordobés. Dir. Prgr. TV: Don V. Fernandez Asis. – **Stations:** Madrid-Navacerrada ch. E2 200/80 kW, H. – Madrid-Chamartin ch. E3 2/1 kW, H. – Zaragoza (La Muela) ch. E3 6/1 kW, H – Valencia (Mt. Garbi) ch. E5 0.05/0.025 kW, H – Barcelona ch.E4 25/5 kW, H – Tortosa (Mt. Caro) ch.E10 50/25 kW, H – **TV-link-chain:** Seven intermediate rel. st.'s interconnecting Madrid-Zaragoza-Barcelona – **Under construction:** Sevilla ch.E3, Bilbao 80 kW, Cordoba 60 kW.
D.Prgr.: From Madrid, Barcelona: 14.45–16.00, 20.00–24.00.

★ SWEDEN ★

SVERIGES RADIO

Swedish TV; run by Sveriges Radio; has the same non-commercial and official status as the broadcasting service.
FI: By license payments. – **Addr.:** Valhallavägen 117, Stockholm. **Postaddr.:** Box 955, Stockholm 1. **Cable:** Broadcast. **Te.:** 631040. **L.P.:** See Sound Broadcasting.
KUNGL. TELESTYRELSEN (The Board of Telecommunications) has the responsibility for the distribution of the programmes produced by Sveriges Radio and has also charge of the collection of license fees. – **Addr.:** Stockholm 16. **Cable:** Gentel. **Te.:** Trunk calls 236060, ext.: 23604. – **L.P.:** See Sound Broadcasting.
Stations: ch. E., H., kW E.R.P.

Name	ch.	kW	Name	ch.	kW
Anderstorp	9	0.15 V.	Nässjö	10	15
Bollnäs	6	15	Skellefteå	6	1.5
Borlänge	10	25	Skövde	3	15
Borås	6	1.5	Sollefteå	7	15
Emmaboda	8	15	Stockholm	4	60
Gävle	9	15	Sundsvall	5	15
Göteborg	9	15	Sunne	7	60
Halmstad	7	15	Trollhättan	7	1
Hudiksvall	10	0.015 V.	Uddevalla	2	1 V.
Hultsfred	9	0.15	Uppsala	6	3
Hälsingborg	9	1	Varberg	10	1 V.
Härnösand	10	0.15	Visby	9	25
Hörby	2	75	Vännäs	2	60
Jönköping	8	0.15	Västervik	6	25
Karlskrona	9	1	Västerås	8	10
Karlstad	5	1 V.	Växjö	5	0.15
Linköping	9	1	Ånge	8	0.15
Lycksele	8	1.5	Örebro	2	60
Malmö	10	1	Örnsköldsvik	6	1 V.
Motala	7	1	Östersund	4	60
Norrköping	5	15			

TV stations under construction:
End of 1960: Bäckefors ch.E8 60/12 kW – Hudiksvall (u) ch.E10 0.15/0.03 kW. V.*) – Mora ch.E8 1/0.2 kW – Sollefteå (u) ch.E10 0.01/0.002 kW. V. – Sveg ch.E3 15/3 kW – Ånge ch.E8 1,5/0.3 kW*).
Before 1/6 1961: Falun (u) ch.E5 0.01/0.002 kW. V. – Karlskrona ch. E9 3/0.6 kW. V*) – Norrköping ch.E5 60/12 kW*) – Storuman ch. E10 15/3 kW – Sundsvall ch.E5 60/12 kW*) – Trahås (u) ch.E8 0.01/0.002 kW. V. – Åre (u) ch.E10 0.01/0.002 kW. V.
u = stations beyond the Stockholm plan. *) = power to be increased.
D.Prgr.: T. Approx.: Sun. 11.00–12.00, 18.30–21.00, Mo. 17.00–17.30, 19.00–21.00, Tues. 17.00–17.30, 18.30–21.00, Wed. no tr.'s, Thurs. 17.00–21.00, Fri. 19.00–21.20, Sat. 17.00–17.30, 18.30–21.10.

★ SWITZERLAND ★

SWISS TELEVISION (Go.)

FI.: a) By the proceeds from the TV license-fees, divided between the SBC and PTT at the rate of 70:30 per cent; b) by a federal loan up to 8.4 mill. Sw.Fr., repayable with interest (3 per cent); c) by an annual grant of 2 mill. Sw.Fr. over a period of 10 years, given by the Swiss newspaper editors. **AD:** Not allowed.
Addr.: Swiss Television, 26 Kreuzstrasse, Zurich. **Cable:** Telesuisse. **Te.:** Zurich (051) 34.80.30, Geneva (022) 24.72.50. – **L.P.:** Dir. Swiss Television Service: Edouard Haas. Head German Prgr.: Dr. Guido Frei, Head French Prgr. and Deputy Dir.: René Schenker. Head Italian Prgr.: Franco Marazzi. Head Tec.: H. R. Züst. Head Adm.: Rolf Wydler. Head Prgr. Coordination: Frank R. Tappolet.
Stations: Ch.E. Po.: H.

German Prgr.: Bantiger (Berne) ch.2 30/6 kW – Uetliberg (Zurich) ch. 3 12/2.4 kW – Säntis ch. 7 15/3 kW – St. Chrischona (Bâle) ch.10 10/2 kW.
PTT boosters: Rigi (Lucerne) ch.6 100/20 Watts – St. Gall ch. 10 10/2 Watts – **Private boosters:** Obersays (Coire) ch.10 75/15 Watts – Feldis[1]) (Grisons) ch.6 60/12 Watts – Feldis-Plaza[1]) (Grisons) ch.8 75/25 Watts – Ruschein[1]) (Grisons) ch.9 150/30 Watts – Luven[1]) (Grisons) ch.5 25/5 Watts.
[1]) provisional data.
French Prgr.: La Dôle ch.4 144/28 kW – La Chaux-de-Fonds (Jura) ch.9 6/1.2 kW.
PTT boosters: Mt.-Pèlerin (Léman) ch.11 300/60 Watts – Ravoire (Valais) ch.9 1800/360 Watts. – **Private boosters:** Veysonnaz (Sion) ch. 6 500/100 Watts – Moron (Jura) ch.11 21/4.2 Watts.
Italian Prgr.: Mt. Ceneri ch.5 4.8/1 kW – Mt. San Salvatore ch.10 10/2 kW.
PTT booster: Mt. Morello ch.6 30/6 Watts.
Projected stations: Bantiger: Second tr. for French prgr. 1962 – Rigi: (C. Switzerland) 1963.
D.PRGR.: In German, French and Italian*) D. (exc. Tues.) 19.00–approx. 21.15 and special prgrs. in the afternoon, f. inst. Eurovision sporting events etc. – Wed. and Thurs. afternoon Childrens' Hour. Sat. afternoon: Children's Hour, Women's Prgr., Sports News. – Sun. morning: Outside broadcast service from churches. – Sun. afternoon: Farmers' prgr., sports news, film prgr.'s, etc.
*) **The Italian**-speaking tr's relay, besides 4 h's weekly produced by Tessin's own O. B. van, prgr.s from the German-speaking and French-speaking part of Switzerland, resp. with comm. in Italian.
Type of programmes: The Swiss TV programmes cover all subjects.
Relay facilities: A microwave link across the Alps. It runs from Gempen, near Bâle (northern border) to Froburg-Bantiger-Jungfrau (12.200 ft.) – Mt. Generoso (southern part of Switzerland) on the one side, and the German and Italian TV systems on the other side. – A second microwave link runs from Uetliberg – Froburg – Bantiger – Romont – La Dôle. It has been extended to Cuiseaux for the programme exchange with France. – Third link: Uetliberg – Säntis – Pfänder (Austria).

★ USSR ★

STATIONS: Ch. R---. Definition: 625. **Polarisation:** Horizontal.
ADDR.'s of the most important TV studios: Tsentralnaja studija televidenija Moskva, ul. Sjabolovka 53 (Dir. I. Inozemtsev) – Leningradskaja studija televidenija Leningrad, ul. Malaja Sadovaja 2 – Kijevskaja studija televidenija Kijev, Krestjatik 24 – Minskaja studija televidenija Minsk, ul. Kalinina 6 – Rizjskaja studija televidenija Riga, ul. B. Nometnu 62 – Tallinskaja studija televidenija Tallinn, ul. Kreitsvalda 14 – Bakinskaja studija televidenija Baku, Parkovaja ul. 1. – Tasjkentskaja studija televidenija Tasjkent, ul. Navoi 69 – Jerevanskaja studija televidenija Jerevan, pr. Ordzjonokidze 22 – Tbilisskaja studija televidenija Tbilisi, pr. Rustaveli 12 – Vilnjusskaja studija televidenija Vilnius, studija televidenija – Alma-Atinskaja studija televidenija Alma-Ata, studija televidenija – Kisjinjovskaja studija televidenija Kisjinjov, studija televidenija.

	ch.	kW		ch.	kW		ch.	kW
Moscow I	I	40	Minsk	III	20	Vilnius	V	15
Moscow II	II	7.5	Riga	III	20	Kalinin	II	2
Kiev	II	5	Tallinn	II	20	Odessa	I	20
Leningrad	II	20	Charkov	III	20	Riga	III	20

D. PRGR. from the main cities of the republic and the central stations in the great areas: D. 16.00(Sat. 15.00)–approx. 20.00/21.00. Sun. also afternoon prgr.'s from 10.45.

★ YUGOSLAVIA ★

RADIOTELEVISION YOUGOSLAVE (Go.)

FI: In part by the State and in part by the incomes of radio-stations. From January 1st, 1961, the main incomes will be by license payments.
AD.: 30 mins. per week.
ADDR's: Radiotelevision Yougoslave, 19 Knez Mihajlova, Beograd. **Te.:** 23-341. – **Radiotelevision Beograd,** 2 Hilendarska, Beograd. **Te.:** 24-214. – **Radiotelevision Zagreb,** 4 Jurišićeva, Zagreb. **Te.:** 37-741. – **Radiotelevision Ljubljana,** 17 Tavčarjeva, Ljubljana. **Te.:** 33-111.
L.P.: Radiotelevision Yougoslave: Pres. Adm. Committee: D. Popovic. Secr. Gen.: Dr. I. Pustišek. Head For. Rel.: Mrs. Olivera Vojvodić. Pres. Prgr. Com. TV: D. Strbac. Secr. Prgr. Com. TV: M. Vilček. Pres. Tec. Com.: Eng. S. Rojec. Pres. Tec. Sub-Com. TV: Eng. R. Žižić. – **Radiotelevision Beograd:** Dir. Gen.: D. Popovic. Dir. Prgr. TV: V. Mitrovic. Dir. Tec.: Eng. R. Žižic. – **Radiotelevision Zagreb:** Dir. Gen.: I. Sibl. Dir. Prgr. TV: D. Strbac. Dir. Tec.: Eng. R. Galić. – **Radiotelevision Ljubljana:** Dir. Gen.: D. Seliger. Dir. Prgr. TV: L. Pohar. Dir. Tec.: Eng. Z. Pipan.
STATIONS in operation:

Beograd	**ch.E**	**kW**		**Ljubljana**	**ch.E**	**kW**	
Avala	6	19/4	H	Krvavec	5	6/1.2	H
Fruška Gora	10	30/6	H	Nanos	6	16/0.4	H
Skalnica	11	36/9 W	H	**Sarajevo**	**ch.E**	**kW**	
Kum	11	5/1.2	H	Bjelasnica	6	35 W	H
Celje	6	35/7 W	H	**Zagreb**			
Pohorje	8	35/7 W	H	Sljeme	9	10/2	H
				Psunj	5	50/10 W	H
				Lisina	6	60/12 W	H

D. PRGR.: Common prgr. for Beograd, Zagreb, Ljubljana: Sun.: 08.30–10.00, 14.00–17.00, 19.00–21.30, Mo. 18.00–21.00, Wed. 17.00–21.00, Thurs. 17.00–21.00, Fri. 19.00–21.30, Sat. 17.00–21.00.
Projected stations: Approx. opening date: 1961–1962. Ch. E. Po.: H. Kopaonik ch. 4 – Jastrebac ch. 5 – Avala ch. 6 – Gradište ch. 6 – Subotica ch. 7 – Crni Vrh ch. 8 – Besna Kobila ch. 9 – Rtanj ch. 10 – Goleš ch. 10 – Ovčar-Kablar ch. 11 – Psunj ch. 4 – Grič ch. 5 – Vinkovci ch. 5 – Split ch. 6 – Kozjak ch. 6 – Kalnik ch. 6 – Učka ch. 7 – Srdj ch. 7 – Mirkovica ch. 7 – Čelavac ch. 8 – Osijek ch. 8 – Biokovo ch. 9 – Gorica ch. 11 – Mali Vlaj ch. 5 – Solunska Glava ch. 5 – Turtel ch. 6 – Vodno ch. 7 – Kičevo ch. 9 – Debar ch. 9 – Gevgelija ch. 9 – Pelister ch. 10 – Kočani ch. 10 – Titov Veles ch. 11 – Popova Sapka ch. 11 – Kozara ch. 5 – Velež ch. 6 – Sarajevo ch. 8 – Hum ch. 8 – Vlašič ch. 11 – Niksič ch. 5 – Bjelasica ch. 6 – Ulcinj ch. 6 – Kotor ch. 8 – Lovćen ch. 10.

★ ALGERIA ★

RADIODIFFUSION-TELEVISION FRANÇAISE (Go.)

ADDR.: 10 rue Hoche, Alger. – **L.P.:** Dir. TV: Godin. –
STATIONS: Def.: 819: Algiers ch. F11 0.5/0.13 kW, H. d. Oran ch. F8 50/12 Watts, H. Tizi-Ouzou ch. F7 0.3/0.1 kW (repeats ch. F11 Algiers). Chrea ch. F6 (satellite) 50/12 Watts. – **Under construction:** Constantine ch. F12 10/1 kW. Bone ch. F10 3/0.3 kW. – **D. PRGR.:** W. 18.30–21.50 (Thurs., Sat. also 11.30–12.30, 15.30–18.30), Sun. 13.30–21.50.

★ EGYFT ★

U.A.R. BROADCASTING CORPORATION OF CAIRO (Go.)

FI: By license payments and adv. – **ADDR.:** Radio & TV House, Maspero Str., Cairo. **Cable:** Kahiradio. **Te.:** 813605. – **STATIONS:** Cairo I Ch. E5 100 kW H. – Cairo 2 ch. E7 20 kW H. – **PRGR's:** Cairo I & 2: D.: 14.00–17.00, 18.00–22.30. Sun. & Fri. also 11.00–14.00. – **Projected st's:** Mansura ch. E8 16 kW H – Alexandria ch. E6 24 kW H – Aswan ch. E5 12 kW H – Bush ch. E9 3.5 kW H – Maghagha ch. E6 3.5 kW H – El-Minya ch. E9 3.5 kW H – Dayrut ch. E5 3.5 kW H – Assuit ch. E7 3.5 kW – Port Said ch. E6 3.5 kW H – Ismalia ch. E9 3.5 kW H – Suez ch. E6 3.5 kW H.

★ IVORY COAST ★

ADDR. and **L.P.:** See Sound Broadc. – **Projected st's: Def.** 819 band III 500 Watts 1961.

★ NIGERIA ★

WESTERN NIGERIA RADIOVISION SERVICE

(Comm. with d. two h's education prgr's).
FI: By state and adv. 50% finance from West Region Go. of Nigeria, 50% from Overseas Rediffusion Ltd., London. – **AD.:** 10 mins. each h. – **ADDR.:** Television House, Ibadan, Box 1460. **Cable:** Radvision. **Te.:** 2438. – **L.P.:** Chairman of Board of Dir's: N. J. Sabine. Dir. Prgr.: G. Blackledge. Dir. Tec.: M. W. Heffernan.
STATIONS: Abafon (Lagos) ch. E3 15/4 kW H. – Ibadan ch. E4 1.5/0.4 kW H. – **D. PRGR.: Test tr's:** W. 09.30–11.30, D. 17.00–17.30. **For schools:** 12.00–13.00 (Mo., Tues., Thurs., Fri.). **Prgr.'s:** D. 17.30–21.15.

★ RHODESIA AND NYASALAND ★

FEDERAL BROADCASTING CORP. OF RHODESIA AND NYASALAND (Go., Comm.)

The controlling authority for TV in the Federation is the Federal Broadcasting Corp., who will own and operate the TV transmitters. **Rhodesia TeleVision Ltd.** is the prgr. contractor to the FBC and will be charged with day-to-day running of the TV prgr. sce.
ADDR.: P.O. Box 2696, Salisbury, Rhodesia. – **L.P.:** Dir. Gen.: J. McClurg. Dir. Tec.: J. M. Reeves, M.I.E.E.
STATIONS: C.C.I.R. System: Salisbury ch. E4 20/4 kW, H. – Bulawayo[1] ch. E3 1.5/0.3 kW, H. – Kitwe[2] ch. E6 or 7.
[1] To be completed 31/12 61. [2] To be completed 31/12 62.
D. PRGR.: Mo.–Fri. 16.00–20.15, Sat. 16.00–21.00, Sun. 15.00–21.00. **Prgr. Contractor: Rhodesia TeleVision Ltd. (Comm.).** Operates via

income from adv's and pays F.B.C. a fee for use of tr. Spot adv's totalling 10% of total transmitting times. – **ADDR.**: Pockets Hill, Borrowdale, Salisbury. **Cable:** Teevee. **Te.**: 46157. – **L.P.**: Gen. Mgr.: H. W. Jackson. Dir. Tec.: M. N. Smuts. Operations Mgr.: W. A. Holmes.

★ TUNIS ★

Planned: Radiodiffusion-Television Tunisienne: Tunis ch. F12 20 kW. – St's in Kairouan, Sousse, Sfax.

NEAR EAST

★ CYPRUS ★

CYPRUS BROADCASTING TELEVISION (Pr. Comm.)
FI: Go. subsitised and comm. adv's income. – **ADDR.**: P.O. Box 824, Nicosia. **Cable:** Broadcasts. **Te.**: 5231. – **L.P.**: Dir. Gen.: V. I. Markides. Dir. Prgr.: G. Mitsides. Dir. Tec.: P. T. Astreos. – **STATION:** Nicosia ch. E2 1.5/0.3 kW, H. – **D. PRGR.**: D. exc. Mo., Sat.: 17.00–20.00. – **F.PL.**: Full coverage of Cyprus.

★ IRAN ★

TELEVISION OF IRAN (Pr. Comm.) – **ADDR.**: Av. Pahlavi, Tehran. – **L.P.**: Founder and Chairman of the Board, Dir. Gen.: H. Sabet. Pres.: I. Sabet. Vice-Pres.: H. Sabet. St. Mgr.: H. Sangui. – **STATION:** Tehran ch. A3 4/0.8 kW, H. – Abadan ch. A3 12/2.4 kW, H **D. PRGR.**: Tehran: 14.30–19.30. Abadan: 14.30–18.30.

★ IRAQ ★

TV-STATION OF THE REP. OF IRAQ (Go. Limited comm.)
ADDR.: Ministry of Guidance, Baghdad. – **STATION:** Baghdad ch. E8 50/5 kW. – **D. PRGR.**: D. 16.00–19.00, Fri. also 07.00–09.00. – **F.PL.**: St's in Basra, Kirkuk, Mosul.

★ KUWAIT ★

Government exp. ch. A9 0.1 kW. – Pr. st. planned.

★ LEBANON ★

COMPAGNIE LIBANAISE DE TÉLÉVISION (Comm.)
FI: By adv. 25% of the transmission time. – **ADDR.**: B.P. 4848, Beirut. – **L.P.**: Pres., Dir. Gen.: General S. Nofal. Asst. Dir. Gen's: W. Ezzedine, R. Uhry. Secr. Gen.: G. Audi. Dir. Prgr.: J.-Claude Boulos. Dir. Tec.: N. Loutfi. – **STATION:** 5/1 kW, H.: Ch. E7 Arabic. Ch. E9 French, English. – **D. PRGR.**: Ch. 7: 17.00–19.00; ch. 9: 18.00–20.30. – **F.PL.**: Rel. st's.

★ SAUDI ARABIA ★

ARAMCO-TV (Non-comm.). – **FI:** Non-profit financing by Aramco. **ADDR.**: Arabian American Oil Company, TV/Radio Division, P.O. 1359, Dhahran. – **L.P.**: Producer: J. V. Fullerton. Asst. Producer: R. K. Souders. Head Tec.: F. L. Morris. – **STATION:** H722 ch. A2 6/3.15 kW, H. – **D. PRGR.**: 3 h. each evening.

★ TURKEY ★

TEKNIK UNIVERSITE (Go., exp.)
FI: By the technical University. – **ADDR.**: Elektrik Fakultesi, Yuksek Frekans Tekniği Kursusu, Istanbul. **Te.**: 482250. – **L.P.**: Prof. Dr. A. Ataman. – **STATION:** Ch. E4 50 Watts, H. – **D. PRGR.**: Thurs. 15.00–17.00 only during the Academic Year.

★ SYRIA ★

UNITED ARAB BROADC. SERVICE (Go.): Damascus – **Planned** st's in Damascus, Aleppo.

EAST

★ THE PEOPLES REPUBLIC OF CHINA ★

STATIONS:

	Vision Mc/s	Sound Mc/s		Vision Mc/s	Sound Mc/s		Vision Mc/s	Sound Mc/s
Peking			Tientsin	93.25	99.75	Sian	49.75	56.25
1st Prgr.	57.75	64.25	Shenyang	93.25	99.75	Nanking	49.75	56.25
2nd Prgr.	77.25	83.75	Changchun	57.75	64.25	Hofei	85.25	91.75
Shanghai	93.25	99.75	Harbin	49.75	56.25	Canton	57.75	64.25

Relay Stations: Tangshan[1] 85.25 91.75 – Wusih[2] 57.75 64.25 – Changli[1] 49.75 56.25 – Soochow[2] 57.75 64.25.

Experimental Stations: Fushun 49.75 56.25 – Tsitsihar 57.75 64.25 – Wuhan 93.25 99.75 – Anshan 57.75 64.25.

[1] Rel. from Peking. [2] Rel. from Shanghai.

★ JAPAN ★

NIPPON HOSO KYOKAI (Public Corporation, non-comm.)
Special Juridical Person provided in Broadcast Law.
ADDR.: 2-2, Uchisaiwai-cho, Chiyoda-ku, Tokyo. **Cable:** Radio NHK, Tokyo. – **L.P.**: See Sound Broadcasting.

MONOCHROME-TV:
Stations: In the field of television, NHK renders two kinds of services, general and educational. The general TV service, through its national network, has an 80 percent coverage while the educational service, through Tokyo and Osaka stations, has a 30 percent coverage.
Call: JO--TV. **Po.**: H. exc. Kainan st. which uses V. – **Ch.**: J. – **Def.** 525. – Color-TV: System NTSC.
[1]) Central st. [2]) Educ. st. [3]) Rel. st. [4]) Exp. Educ. st. [5]) Color TV st.

Name		ch.	kW/W	Name		ch.	kW/W
Tokyo[1])[5])	AK	1	50/12.5	Fukuoka	LK	3	10/2.5
Tokyo[2])[5])	AB	3	50/12.5	Kokura	SK	6	1/0.25
Nagano	NK	9	1/0.25	Nagasaki	AG	2	1/0.25
Nagano[3])	–	5	75/18.7W	Sasebo	AT	8	1/0.25
Iida[3])		4	250/63W	Kagoshima	HG	3	5/1.25
Niigata	QK	2	5/1.25	Oita	IP	2	3/0.75
Kofu	KG	2	3/0.75	Miyazaki	MG	8	1/0.25
Yoshihara	–	4	14/3.5W	**Sendai**[1])	HK	3	5/1.25
Osaka[1])[5])	BK	2	10/2.5	Akita	UK	9	5/1.25
Osaka[2])[5])	BB	12	10/2.5	Yamagata	JG	8	3/0.75
Kainan[3])		2	1/0.25W	Tsuruoka	JP	3	250/63W
Fukuchiyama[1])		3	30/7.5W	Morioka	QG	4	3/0.75
Maizuru[3])		1	50/12.5W	Fukushima	FP	9	3/0.75
Nagoya[1])[5])	CK	3	10/2.5	Aomori	TG	3	5/1.25
Nagoya[4])	CK-X	9	10/2.5	Taira[3])		4	25/6.3W
Kanazawa	JK	4	3/0.75	Wakamatsu	HT	1	1/0.25
Shizuoka	PK	9	1/0.25	Kamaishi[3])		2	25/6.3W
Hamamatsu	DG	4	1/0.25	**Sapporo**[1])	IK	3	5/1.25
Hamamatsu[2])	DC	2	1/0.25	Hakodate	VK	4	1/0.25
Fukui	FG	9	3/0.75	Hakodate[2])	VB	10	1/0.25
Toyama	IG	3	3/0.75	Asahikawa	CG	9	1/0.25
Hiroshima[1])	FK	3	5/1.25	Obihoro	OG	4	1/0.25
Okayama	KK	5	5/1.25	Kushiro	PG	9	1/0.25
Matsue	TK	6	1/0.25	Muroran	IU	9	1/0.25
Tottori	LG	3	1/0.25	Muroran[2])	IT	2	1/0.25
Onomichi	DP	7	1/0.25	**Matsuyama**[1])	ZK	6	5/1.25
Hofu	UG	9	1/0.25	Kochi	RK	4	1/0.25
Kure[3])		11	12/3W.	Tokushima	XK	3	1/0.25
Tsuyama[3])		2	75/18.7W	Niihama	ZQ	2	250/63W
Kumamoto[1])	GK	9	1/0.25				

D.Prgr.: General: Mo.–Fri. 21.57–23.15, 01.30–05.18, 08.50–14.25 Sat. 21.57–23.15, 01.30–04.00, 08.20–14.25, Sun. 21.57–04.00, 08.10–14.25. – From 4 o'clock on Sat. and Sun., sports and theatrical plays are broadcast by relay along with moviepictures and other programs.
Educational: Mo.–Fri.: 00.57–02.55, 04.00–04.20, 06.30–07.00, 09.57–14.00, Sat. 00.57–02.55, 04.00–05.00, 09.57–14.00, Sun. 00.57–02.00, 09.57–14.00.
Daily average broadcasting hours of General TV service total ten hours 48 mins., which is broken down into 27 percent of the total time for news events, 15.2 percent for educational programs and 26.7 percent for cultural programs, 26.3 percent for entertainment and 4.8 percent for sports. In the field of General TV Service, school broadcast is delivered every day from Monday to Friday at 02.00 to 02.55 and 04.00 to 04.20 and on Saturday at 02.30 to 02.55.
Daily average broadcasting h's for Educational TV total six h's and 37 mins., which is broken down into 3.9 percent of the total time for news events, 80.7 percent for educational prgrs and 15.4 percent for cultural prgrs. In the field of Educational TV-Sce., school broadcast is delivered daily from Mo. to Fri. at 01.00 to 02.55 and 04.00 to 04.20 and on Sat. at 1.00 to 02.55.

COLOR-TV: Daily average broadcasting hours: Tokyo 50 mins. (General) 17 mins. (Educ.). Osaka 29 mins. (General) 17 min. (Educ.). – Nagoya 30 mins. (General).
F.PL.: NHK is planning to establish a TV st. at each city throughout the country, thus attaining the 100 percent TV coverage. NHK is also planning to establish a TV st. exclusively for educ. broadcast at each of the major cities throughout the country and 9 educ. TV st's from July 1960 to March 1961, thus creating the second TV national net work, as in the present radio broadcasting.

PRIVATE STATIONS (Comm. exc. JOEX)
Call: JO – – TV ch. J. *) Color TV.
D.Prgr.: General approx.: W. 23.00/24.00 or from 02.00–05.00, 08.00–15.00. Sun. approx. 23.00 or 00.00–15.00.

	ch.	kW	
HR	1	10	Hokkaido Broadc. Co., Sapporo.
FX	1	10	Tokai TV Broadc. Co., Nagoya.
IR	1	10	Tohoku Broadc. Co., Sendai.
LR	1	3	Kita-Nihon Broadc. Co., Toyama.
IF	1	10	Kuyushu Asahi Broadc. Co., Fukuoka.
CF	1	5	R. Minami-Nihon Broadc. Co., Kagoshima.
GR	1	5	R. Aomori Broadc. Co., Aomori.
FR	4	10	RKB, Mainichi Broadc. Co., Fukuoka.
OR	4	10	MBS, Mainichi Broadc. System, Osaka.
AX*	4	50	Nippon TV-Network Co., Tokyo.
ER	4	5	R. Chugoku Broadc. Co., Hiroshima.
AR	5	10	Chubu Nippon Broadc. Co., Nagoya.
DR	5	5	R. Niigata Inc., Niigata.
KX	5	10	Sapporo TV Broadc. Co., Sapporo.
JF	5	3	R. Yamanashi Broadc. Co., Yamanashi.
GF	5	3	R. Oita Broadc. Co., Oita.
DF	6	3	Iwate Broadc. Co., Morioka.
KR*	6	375	R. Tokyo TV, 36 Hitotsugicho, Akasaka, Minato-ku, Tokyo. **Cable:** JOKRTOKYO. **Te.:** 481–8711. – **L.P.:** Dir.s Gen.: Y. Tanaka, J. Inamichi, Dir. Tec.: K. Endo. D. Prgr.: W. 21.55–00.25, 02.30–04.45, 08.15–14.30. Sun. 22.00–14.50. Color-TV: 14 hours in a week.
NR*	6	10	**Asahi Broadc. Corp.** TV Station, Dojima, Kitaku, Osaka. – **D.Prgr,:** W. 21.50–00.30, 01.45–14.30, Sun. 22.25–14.20. – Color Prgr.: D. 08.00–04.30.
MR	6	3	Hokuriki Broadc. Co., Kanazawa.
DX	8	10	Kansai Telecasting Corp., Osaka.
CX	8	50	Fuji Telecasting Co., Tokyo.
KF	9	10	Nishi-Nippon Broadc. Co., Takamatsu.
AF	10	5	Nankai Broadc. Co., Matsuyama.
EF	10	3	Yamagata Broadc. Co., Yamagata.
IX	10	10	Yomiuri TV Broadc. Corpo., Osaka.
EX	10	50	Nippon Educational TV Co., Tokyo.
YR	11	10	Sanyo Broadc. Co., Okayama.
TR	11	5	R. Tohoku Broadc. Co., Akita.
PR	11	3	Fukui Broadc. Co., Fukui.

+ 21 low power st's and 5 satellite st's

★ RYUKYU ISLANDS ★

OKINAWA TELEVISION BROADC. LTD. (Comm.)
ADDR.: 1-chome, Matsuyama-cho, Naha, Okinawa. – **L.P.:** Pres.: T. Gushichan. Man. Dir.: Y. Yamashiro. – **STATION:** KSDW-TV ch. A10 5/2 kW. – **D. PRGR.:** 02.40–08.25 in E., Jap.

RYUKYU BROADC. CORP., LTD. – **ADDR.:** 66-1, Kumojicho, Naha. – **L.P.:** Pres.: S. Zayasu. – **STATION:** Naha ch. A12 5 kW. **D. PRGR.s:** in E., Jap.

★ KOREA ★

DAI HAN BROADC. CORP. (Comm.), Seoul. – **L.P.:** Dir. Tec.: Kwang Woo. – **STATION:** Ch. A9 0.5/0.15 kW. – Not on the air at present. – **Planned st.:** Korean National Broadc. Co., Seoul.

★ PHILIPPINES ★

BOLINAO ELECTRONICS CORP. – **ADDR.:** ABS Bldg., Demey Blvd., Manila. – **L.P.:** Exec. Vice Pres.: E. Lopez, Jr. Production Mgr.: L. Garcia. Chief Eng.: A. Carandang, Jr. – **STATION:** DAZQ-TV ch. A3 6.76/3.5 kW. – **D. PRGR.:** 05.00–15.00.

CHRONICLE BROADCASTING NETWORK – **ADDR.:** Aduana Str., Manila. **Cable:** CBN. **Te.:** 3.00-61. – **L.P.:** See Sound Broadc. – **STATION:** DZXL-TV ch. A9 60 kW. – **D. PRGR.:** 02.00–15.00.

REPUBLIC BROADCASTING SYSTEM – **ADDR.:** RBS Bldg., Highway 54, Quezon City. – **L.P.:** Gen. Mgr.: Loreto F. de Hemedes. **STATION:** DZBB-TV ch. A7 0.1/0.05 kW. – **D. PRGR.:** 02.00–16.00.

INTER-ISLAND BROADCASTING CORPO. – **ADDR.:** Trinity Bldg., San Luis St., Manila. – **STATION:** DZTV ch. A13 1 kW. – **D. PRGR.:** 07.00–15.00.

PROJECTED ST's.: Chronicle Broadc. Network: Bacolod City ch. A2 0.5 kW. Baguio City ch. A2 0.5 kW. Cebu City ch. A3 2 kW. – **Metropolitan Broadc. Co.:** Cebu City ch. A9 1 kW. – **Manila Times Publications, Inc.:** Davao City ch. A3 10 kW. Cebu City ch. A13 10 kW. – **Visayan Broadc. Network:** Cebu City ch. A7 0.5 kW. Bacolod City ch. A9 0.5 kW.

★ THAILAND ★

THAI TELEVISION CO., LTD. (Comm.). – **FI:** By state and adv. – **ADDR.:** Bang Koon Prom, Bangkok. **Cable:** Thai TV. – **L.P.:** Chairman: Gen. Charusreni. Mgr.: P. Hongsanand. Dir. Tec.: A. Pojpisut. – **STATION:** HST-TV ch. A4 27/4.5 kW, H. – **D. PRGR.:** 10.30–15.00. – **F.PL.:** 17 st's incl. 3 satellites.

THE ARMY TELEVISION STATION (Comm.). – **FI:** By state and adv. – **ADDR.:** Sanam Pao, Bangkok. **Te.:** 70428. – **L.P.:** Gen.: S. Suravardhara. Dir. Prgr.: Col. T. Chueyprasit. Dir. Tec.: Col. S. Booryarit. – **STATION:** HS-A-TV A7 60/30, kW H. – **D. PRGR.:** D. 11.00–16.30.

PACIFIC

★ AUSTRALIA ★

Standards: Def.: 625. – Frame frequency: 25. – Ch.width.: 7 mc/s FM.

AUSTRALIAN BROADCASTING COMMISSION (ABC)
National Television is controlled by the Australian Broadcasting Commission, which is responsible to the Postmaster-General, whose department controls the transmitters. – **ADDR.:** Australian Broadcasting Commission, 264 Pitt Street, Box 487, G.P.O., Sydney. **Cable:** Abcom Sydney. – **L.P.:** See Sound Broadcasting.
STATIONS: The A.B.C. controls six stations: One each in Sydney (ABN), Melbourne (ABV), Brisbane (ABQ), Adelaide (ABS), Perth (ABW), and Hobart (ABT). All transmitters operate on ch. 2 on 63–70 mc/s, 100/20 kW.
D. PRGR.: Sun. 04.30–12.30. Mo.–Fri. 06.00–13.00. Sat. 03.30–13.00.

PRIVATE STATIONS (Comm.)
Adv. accepted under conditions of Australian Broadc. Control Board. The first two letters are an abbreviation of the name of the licensee, the third indicates the state and the numeral signifies the channel. All st's 100/20 HkW exc. TVT6 50/10 H.

1.	ABS2	64.25– 69.75	TV Broadcasters Ltd., 52 New Town Rd., Hobart.
2.	TVT6	175.25–180.75	Tasmanian TV Ltd.
3.	ADS7	182.25–187.75	TV Broadcasters Ltd., 125 Strangways Terrace, No. Adelaide, So. Australia.
4.	TVW7	182.25–187.75	TVW, Ltd., Osborne Park Rd., Tuart Hill, We. Australia.
5.	HSV7	182.25–187.75	Herald-Sun TV. Ltd., Dorcas & Wells Str., So. Melbourne.
6.	ATN7	182.25–187.75	ATN7 TV Centre, Epping, N.S.W.
7.	BTQ7	181.25–186.75	Brisbane TV Ltd., 241 Adelaide Str., Brisbane.
8.	TCN9	196.25–201.75	Television Corpo. Ltd. Artamon Rd., Willoughby NSW.
9.	GTV9	196.25–201.75	General TV Corpo. Pty., Ltd., 22 Bendigo Str., Richmond, Victoria.
10.	QTQ9	196.25–201.75	Queensland TV Ltd. TV ceotre, Brisbane.
11.	NWS9	196.26–201.75	Southern TV Corpo., Tynte Str., No. Adelaide, So. Australia.

★ HAWAII ★

FI.: By adv. – All st's comm. – Ch. A. Po.: Vertical.

RADIO HONOLULU, LTD. – **ADDR.:** 1170 Auhi St., Honolulu. **L.P.:** Gen. Mgr.: J. D. Keating. – **STATION:** Honolulu KONA-TV ch. 2 60/30 kW. **Satellite st.:** Wailuku, Maui KALA-TV ch. 7. – **D. PRGR.:** W. 22.30–10.00, Sun. 02.00–10.00 in E., Filipino, Jap.

KAISER HAWAIIAN VILLAGE TELEVISION, INC.
ADDR.: 1290 Ala Moana Blvd., Honolulu. – **L.P.:** Gen. Mgr.: R. C. Block. – **STATIONS:** Honolulu KHVH-TV ch. 4 30/15 kW. **Satellite st's:** Hilo KHJK-TV ch. 13 2/1 kW. Wailuku, Maui KMVI-TV ch. 12 30/15 kW. Honohina K76BB ch. 76UHF. – **D. PRGR.:** D. 18.00–10.00 in E.

HAWAIIAN BROADCASTING SYSTEM, LTD. – **ADDR.:** 1534 Kapiolani Blvd., Honolulu. – **L.P.:** Gen. Mgr.: M. R. Warren. – **STATION:** Honolulu KGMB-TV ch. 9 132/79 kW. – **Satellites:** Wailuku, Maui KMAU-TV ch. 3 6/3 kW. Hilo KHBC-TV ch. 9 1/0.5 kW. Kulani K70BS ch. 70UHF. Lihue, Kauai K7OBW ch. 70UHF. Naalehu K74BA ch. 74UHF. – **D. PRGR.:** 21.00–10.00 in E., Filipino, Jap.

★ MARIANAS ISLANDS ★

KUAM TELEVISION (Comm.)
FI: By adv. – **ADDR.:** P.O. Box 368, Agana. **Cable:** KUAM. – **L.P.:** Dir. Gen.: H. M. Engel, Jr. Dir. Prgr.: G. Bahr. Dir. Tec.: E. Sibayan· **STATION:** ch. A8, A10 0.15/0.09 kW. V. – **D. PRGR.:** Mo.–Fri. 12.00–23.00, Sat. 08.00–23.00, Sun. 10.00–23.00.

★ NEW ZEALAND ★

NEW ZEALAND BROADCASTING SERVICE (Go.)
FI: By license payment. – **ADDR.:** P.O. Box 98, Wellington, C.I. **Cable:** Broadserv. **Te.:** 70999. – **L.P.:** See Sound Broadc.
STATIONS: Def.: 625.: Auckland ch. 2 55.25/60.75 Mc/s 0.50/0.25 kW.H. – **Projected st's:** Wellington ch. 1 45.25/50.75 Mc/s 10/2 kW.H. Christchurch ch. 3 62.25/67.75 Mc/s 10/2 kW.H. – Dunedin ch. 2 55.25/60.75 Mc/s 10/2 kW.H. – **D. PRGR.:** Mo.–Fri. 07.30–09.30.

★ CANADA ★

CANADIAN BROADCASTING CORP. (Publicly owned)

ADDR.: Quebec Region: CBFT, CBMT: 1425 Dorchester Str. West. Montreal. – Maritime Region: CBHT, Bell Road, Halifax, Nova Scotia. – Prairie Region: CBWT, 541 Portage Ave., Winnipeg, Manitoba. – British Columbia Region: CBUT, 701 Hornby Str., Vancouver. – Ontario Region: CBLT, 354 Jarvis Str., Toronto, CBOT, CBOFT, P.O. Box 3220, Station "C" Ottawa.

L.P.: Gen. Mgr. Regional Broadc.: Charles Jennings – **Quebec Region:** CBFT, CBMT: Dir.: Yves Vien; Program Dir.: F. Guerard (CBFT, French). K. F. Davey (CMBT) Technical Director: C. Frenette – **Maritime Region:** CBHT: Dir. J. Simonsen Prgr. Dir.: C. MacCaul; – **Prairie Region:** CBWT: Dir.: W. Carpentier; Prgr. Dir.: B. D. MacPherson. Tec. Dir.: H. Heywood – **B. C. Region:** CBUT: Dir.: Hugh Palmer; Prgr. Dir.: W. Inglis. Tec. Dir.: R. Whiteside – **Ontario Region:** CBLT: Dir.: W. R. Graham. Tec. Dir.: R. Horton; CBOT-CBOFT: Mgr.: Georges Huard; Prgr. Dir.: Dennis Townsend; Tec. Dir.: J. Book.

CBC Stations: Po.: V. E=English Netw. F=French Netw. Def. 525.

Station	Call	ch.A	kW(ERP)		H. of tr. (appr.)
Montreal	CBFT	2	100/50	F	21.30–06.00
Vancouver[1])	CBUT	2	47.6/25.4	E	22.00–09.00
Halifax[2])	CBHT	3	56/34	E	18.20–05.15
Winnipeg	CBWT	3	57.8/34.7	E	21.00–06.45
Ottawa	CBOT	4	50.1/26.7	E	21.00–06.30
Corner Brook	CBYT	5	0.19/0.09	E	22.00–05.45
Montreal	CBMT	6	43.8/26.2	E	20.00–06.00
Toronto	CBLT	6	99.5/53.5	F	21.30–05.45
Winnipeg	DBWFT	6	2.87/1.72	F	23.45–06.00
Sturgeon Fall	CBLFT7	7	8.75/5.25	F	
Kenora	CBWAT	8	0.49/0.24	E	
Ottawa	CBOFT	9	31/17	F	20.45–05.00
Moncton	CBAFT	11	0.60/0.32	E	21.25–04.00

Satellite st's: [1]) CBUAT ch. 11 0.164 kW., CBUAT-1 ch. 9, CBUT -1 ch. 4. – [2]) CBHT-1 ch. 12 (Liverpool), CBHT-2 ch. 8 (Shelbourne), CBHT-3 ch. 11 (Yarmouth). Powers each st. 0.41/0.24 kW.

D. PRGR.: Approx.: 20.00/22.00–05.00/07.00.

The microwave network is now in operation from St. John's, Newfoundland, to Victoria, British Colombia.

PRIVATE STATIONS (Comm.)

FI: By AD. * indicates that the st. has a satellite-station.

Call	ch.A	kW(ERP)	Location
CKCW-TV*	2	25/15	Moncton, N.B.
CJIC-TV	2	28/15	Sault Ste. Marie, O.
CFCJ-TV	2	100/55.4	Port Artur, O.
CKCK-TV	2	100/53.5	Regina, Sask.
CIISA-TV	2	14.63/7.3	Lloydminster, Sask.
CHCT-TV	2	100/50	Calgary, Alta.
CJBR-TV*	3	100/56.9	Rimouski, Que.
CKVR-TV	3	100/50	Barrie, Ont.
CFRN-TV	3	180/90	Edmonton, Alta.
CJCB-TV*	4	100/60	Sydney, N.S.
CHSJ-TV	4	100/50	Saint John, N.B.
CJCN-TV	4	86/43	Grand Falls, Nfld.
CFCM-TV	4	12.7/6.3	Quebec, Que.
CKRN-TV	4	50/25	Rouyn, Que.
CHAB-TV	4	54/27	Moose Jaw, Sask.
CHAU-TV	5	100/52	Carleton, Que.
CKSO-TV*	5	30/16	Sudbury, O.
CKX-TV	5	19.3/9.6	Brandon, Man.
CJFB-TV	5	13.3/6.6	Swift Current, Sask.
CKBI-TV	5	61/36.5	Prince Albert, Sask.
CJON-TV*	6	21/11	St. John's, Nfld.
CFCL-TV*	6	18.5/9.25	Timmins, O.
CHCA-TV	6	13/6.5	Red Deer, Alta.
CHEK-TV	6	100/50	Victoria, B.C.
CJAY-TV	7	325/180	Winnipeg, Man.
CHLT-TV	7	312/186	Sherbrooke, Que.
CJLH-TV	7	96.1/44.9	Lethbridge, Alta.
CHAN-TV	8	325/129	Vancouver, B.C.
CJSS-TV	8	260/130	Cornwall, O.
CKNX-TV	8	180/100	Wingham, O.
CFQC-TV	8	180/100	Saskatoon, Sask.
CKBL-TV	9	160/95	Matane, Que.
CKLW-TV	9	178/107	Windsor, O.
CFPL-TV	10	325/195	London, O.
CKGN-TV	10	51.5/27.7	North Bay, O.
CKWS-TV	11	130/78	Kingston, O.
CHCH-TV	11	150/90	Hamilton, O.
CKRS-TV	12	20/10	Jonquiere, Que.
CHEX-TV	12	260/156	Peterborough, O.
CFCF-TV	12	325/162H	Quebec, Que. Early 1961.
CFCY-TV*	13	79/39.5	Charlottetown, P.E.I.
CKTM-TV	13	42.5/21.25	Trois Rivieres, Que.
CKCO-TV	13	100/54.4	Kitchener, O.

+ 7 st's less 10 kw

D. PRGR.: The st's do not have exact tr. h's since their schedules change from day-to-day, week-to-week, su. and wi. sched. are quite different.

★ MEXICO ★

STATIONS: Call: XE--- exc. where indicated. Ch. A.

Cultural:

IP-TV Ch. A11 200/100 kW. Instituto Politecnico Nac. Casco de Santo Tomás, Mexico D.F.

Commercial:

Call	ch.A	kW	
[1])*W-TV [1])*XH-TV [1])*XHGC	2 4 5	50 H 5 H 5 H	Televimex S.A., Ed. Televicentro, Av. Chapultepec 18, Mexico D.F. Te.: 18-50-20. **D. PRGR.:** 21.00–07.00. – **L.P.:** Dir. Gen.: E. Azcarraga. Mgr.: E. Azcarraga M. y R. O'Farrill jr. Dir. Tec.: Eng.: M. A. Pereyra.
*TV	6	35	R. Televisora S.A., Tijuana, Baja Cal.
J-TV	5	3.65	Television de la Frontera, Ciu. Juarez.
*FE-TV	11	150W	Nuevo Laredo Television, Nuevo Laredo.
*FB-TV	3	15/7 H	Cadena Televisora del Norte, Monterrey.
*M-TV	3	5	Televisora de Méxicali, Mexicali, Baja Cal.
LN-TV	4	1 H	Televisora de la Laguna, Torreón, Coah.
XHGO-TV	7	H	Televisora del Golfo, S.A. de C.V., Tampico.
*XEWT-TV	12	6 H	Televisora de Calimex, Tijuana, Baja Cal.
*RA-TV	11	50W Hd	Televisora de Chihuahua, Chihuahua.
WH-TV	6	400W H	Televisora de Hermosillo, Hermosillo.
*WO-TV	2	5 H	Televisora de Occidente, Guadajara.
*XHNL-TV	10	50W H	Cadena Televisora del Norte, Monterrey.
LD-TV	7	5	Television de Matamores, Mexico D.F.

* *Affiliated Telesistima Mexicano.*

[1]) **Relay Stations:**

Televisora Paso de Cortes, S.A., Altzomoni: Rel. Ch. A7 25 kW.
Televisora del Centro, S.A., Zamarano. Z-TV. Ch. A3 10 kW.
Televisora de Guanajuato, S.A., Zamarano. Ch. A6 10 kW.
Telesistima Mexicano, S.A., Aguascalientes Ags.: Rel. Ch. A5 75 W.
Televisora de Occidente, S.A., Guadalajara, Jal. Ch. A2 15/7 kW.

★ UNITED STATES OF AMERICA ★

	Authorized	Licensed	Operating
TV commercial st's:	653	481	579
TV educational st's:	64	40	47
TV translator st's:	302	233	300 approx.

EDUCATIONAL TV-STATIONS

The 64 operating TV educational stations are mainly situated in the large cities and university centres. They are of three types: 1) Community stations supported by voluntary funds; 2) University stations supported by State and local budgets; 3) State-owned networks covering entire divisions of the country supported entirely by taxation. An interesting development for educational purpose is closed-circuit TV, limited to universities and to individual school-systems. A prgr. sce. known as the National Educational Television and Radio Center located at Coliseum Bldg., Columbus Circle, New York City, N.Y., supplies educational TV prgrs. to the present stations and in addition, distributes its prgr's to both closed circuit and film projectors which are in use in thousands of schools.

THE ARMED FORCES RADIO & TELEVISION SERVICE

A: Army. AF: Air Force. N: Navy. RCA: Royal Canadian Army.

AREAS: ch.A:

		ch.	Watt			ch.	Watt
Alaskan				Stephenville[4])	AF	8	200
Adak	N	8	200	Terceira[5])	AF	8	50
Ft. Greely	A	8	200	Sondrestrom[7])	AF	8	200
Kodiak	N	8	200	Thule AFB[7])	AF	8	50
Wildwood	A	8	100	Keflavik[8])	AF	8	50
Caribbean				E. Harmon AFB[4])	AF	8	200
F. Clayton[2])	A	8	200	Lajes Field [5])	AF	8	50
Ramey[1])	AF	21	100	Kindley AFB[6])	AF	10	200
Guantanamo[3])	N	8	200	**Pacific**			
F. Davis[2])	A	10	200	Midway	N	11	25
N. Atlantic				Eniwetok MI[9])	AF	6	200
Goose Bay[4])	AF	8	150	Guam, M.I.	N	10	200

		ch.	Watt
N. African			
Tripoli[10])	A	8	200
Asmara[11])	A	8	50
European			
Spangdahlem[13])	AF	24	1000
Iraklion[14])	AF	8	100
Ramstein[13])	AF	20	1000
N.EA., EA., Far EA.			
Teheran[15])	AF	8	500
Dhahran[12])	A	8	200
Okinawa[17])	AF	8	200
Seoul[18])	A	3	500
Camp Kaiser[18])	A	3	500
Paju-Ri[18])	A	12	50
Camp Casey[18])	A	3	200
Osan[18])	A	12	200
Uijong-Bu[18])	A	12	200
Clark AFB[19])	AF	8	200
Luzon[19])	AF	8	100
Misawa AFB[16])		72	–

1) Puerto Rico. 2) Panama Canal Zone. 3) Cuba. 4) Canada. 5) Azores. 6) Bermuda. 7) Greenland. 8) Iceland. 9) Marshall Isl. 10) Libya. 11) Eritrea. 12) Saudi Arabia. 13) Germany. 14) Greece. 15) Iran. 16) Japan. 17) Ryukyu Isl. 18) Korea. 19) Philippines.

AMERICAN BROADCASTING CO., 7 West 66th St., New York 23, N.Y. Te.: See Sound Broadcasting. – LP.: A. B.-PT. Press.: L. H. Goldenson. Pres. of TV-network: O. Treyz. Vice Pres., in charge of Press, Inf.: M. J. Foster. – **Owned and operated st'.s:** WABC-TV, New York. WBKB-TV, Chicago. WXYZ-TV, Detroit. KABC-TV, Los Angeles. KGO-TV, S. Francisco.

COLUMBIA BROADCASTING SYSTEM INC., 485 Madison Av., New York 22, N.Y. Te.: See Sound Broadc. – L.P.: Pres. CBS TV st's Division: M. S. Jones. Dir. Inf. Sce'.s: J. P. Cowden. – **Owned and operated st'.s:** WCBS-TV, New York, WBBM-TV, Chicago, KNXT, Los Angeles, WCAU-TV, Philadelphia, KMOX-TV, St. Louis.

NATIONAL BROADCASTING COMPANY, INC., RCA Building, New York 20, N.Y. – L.P.: Chairman of the Board: R. W. Sarnoff. Pres. R. E. Kintner. Exec. Vice Pres. TV network: W. D. Scott. Vice Pres. Corporate Affairs: L. Bernstein. – **Owned and operated st'.s:** WNBC-TV, 30 Rockefaller Plaza, New York 20, N.Y. – WRC-TV, 4001 Nebraska Ave., Washington 16, D.C. – WNBQ, Merchandise Mart, Chicago 54, Illl. – WRCV-TV, 1619 Walnut Str., Philadelphia 3, Pa. – KRCA, Sunset and Vine, Hollywood 28, Cal.

★ PUERTO RICO ★

Call.	ch.	A kW	Comm. exc. Dept. of Education
WKAQ-TV	2	100/50	El Mundo Inc., Box 1072, San Juan.
WIPM-TV	3	35.5/17.8	Dept. of Education of P. R., Hato Rey, San Juan.
WAPA-TV	4	56.39/33.9	Ponce de Leon Broadc. Co. Inc. of P. R., 357 Ponce de Leon Ave., San Juan.
WORA-TV	5	29.5/15.5	Supreme Broadc. Co. Inc. of P. R., Box 43, Mayaguez.
WIPR-TV	6	100/50	Dept. of Education of P. R., Hato Rey, San Juan.
WRIK-TV	7	1.4/0.7	Ponce TV Corpo., Darlington Bldg., Ponce.
WSUR-TV	9	0.83/0.42	American Colonial Broadc. Corpo., Box 4189, San Juan. Tr. in Villalba.
WKBM-TV	11	2.71/13.5	American Colonial Broadc. Corpo., Box 4189, San Juan. Tr. Caguas.
WOLE-TV	12	33.1/16.6	Wester Broadc. Corpo. of P. R., Box 2050, San Juan. Tr. in Pico Atalay, A. Rícon.

D. PRGR.: Approx. 17.00–20.00 to approx. 02.00–04.00.

CENTRAL AMERICA

★ BERMUDA ★

BERMUDA RADIO & TELEVISION CO., LTD. (Comm.)
FI: By adv. – ADDR.: Radio Centre, Hamilton. Cable: ZBM-TV. Te: 1-3117. – L.P.: Man. Dir.: W. Staskow. St. Mgr.: K. Belton. Production Mgr.: W. Davidson. Dir. Tec.: J. H. (Bert) Spersholt. – Station: ZBM-TV ch.A10 4/2 kW. H. – D. PRGR.: D. 21.00–04.00, Mo.–Fri. also 11.30–13.00.

★ COSTA RICA ★

TELEVISORA DE COSTA RICA LTDA.
ADDR.: Aparto 3876, San José. – L.P.: Mgr.: R. Picado. – Station: TI-TVCR ch. A7 3.2/1.6 kW. – Projected st.: Televisora Cultural Universitaria.

★ CUBA ★

CM–	Ch.A	kW H	Name and address
AB-TV	2	110/50	Telemundo, Habana,
KU-TV	2	13.7/6.9	Circuito CMQ, Stgo. de Cuba
JA-TV	2	14.3/4	CMBF Cadena Nacional, St. Clara.
KJ-TV	3	27.5/13.7	Circuito CMQ, Holguin.
H-TV	3	31/8	Cadena Nacional.
BF-TV	4	100/50	CMBF Cadena Nacional, Habana.
J-TV	4	25/12.5	CMBF Cadena Nacional, Camaguey.
HQ-TV	5	25.6/12.8	Circuito CMQ, Sta. Clara.
-TV	5	14.3/7.1	CMBF Cadena Nacional, S. A., Santiago de Cuba.
Q-TV	6	100/50	Circuito CMQ, Habana, Radio Centro.
JL-TV	6	48.4/24.2	Circuito CMQ, Camagüey.
BA-TV	7	51/25	Cia. Radio Universal, Habana.
	7	32/16*	Telemundo, Stgo. de Cuba.
JV-TV	7	18.2/9.08	Circuito CMQ, Ciego de Avila.
RA-TV	8	32/16*	Telemundo, Sta. Clara.
LR	8	5/1.5**	CMBF Cadena Nacional, Holguin.
GQ-TV	9	28/7	Circuito CMQ, Matanzas.
FE-TV	9	32/16	Telemundo, Camagüey.
	10	25/12.5	Television Habanera, Ambar Motors Bldg., Habana.
GH-TV	11	32/16	Telemundo, S. Miguel.
FF-TV	12	32/16	Telemundo, Jatibonico.
BJ-TV	12	115/55	TV de la Libertad, Hotel Hamilton, Habana.
	13	32/16	Telemundo, Holguin.
G-TV	13	28/14	CMBF Cadena Nacional, Matanzas.
	73	32	CMBF Cadena Nacional, S. A., Victoria de las Tunas (Satellit).

* Satellite AB. ** SatelliteF. CMB
Projected stations: Circuito CMQ: Pinar del Rio. CMAQ-TV ch. A5H. **CMBF Cadena Nacional:** Pinar del Rio Ciego de Avila ch. 2.

★ DOMINICAN REP. ★

LA VOZ DOMINICANA-TV (Comm.) – ADDR.: Calle Miami, C. Trujillo. Cable: Dominicana. Stations: HIT-TV ch. A4 16/4 kW. Satellites: La Cumbre ch. A9 500 W. Santo Cerro ch. A2 5 kW. – **LA VOZ DE REELECCION-TV,** Ciudad Trujillo – HIN-TV ch. A7 1 kW.

★ EL SALVADOR ★

TELEVISION SALVADOREÑA S. A. (Comm.), Ed. Central, 4a Av. Sur 322, San Salvador. – L.P.: Gen. Mgr.: V. C. Barriere. – Stations: YSEB-TV ch. A6 1.5 kW, YSDR-TV ch. A8 40/20 kW.
RADIO TELEVISION YSU, S. A. (Comm.), Av. Olimpica y Doble via Col Escalon, S. Salvador. – L.P.: Dir. Gen.: Dr. II. Escapini. Dir. Tec.: R. Rahn. – Stations: YSU-TV ch. A4 66/39 kW.
Planned st.: YSY-TV Television Nacional, Avda. Sur 1, San Salvador. Ch. A2.

★ GUATEMALA ★

RADIO-TELEVISION GUATEMALA, S. A. (Comm.), 8A Av. 9–23 Zona 1, Guatamala City. Cable: Television. Te.: 24–1–24. – L.P.: Dir. Gen.: W. G. Campbell. Dir. Prgr.: L. Rivera. Dir. Tec.: M. Batres. – Station: TG-BOL-TV ch. A3 15 kW. – D. PRGR.: 18.05–20.30, 23.00–06.00.
TELEVISION NACIONAL (Go., comm.), Edif. de la Tipografia Nacional, Calle 18 de Septiembre y 7a Ave. Sur., Guatamala City. – L.P.: Dir. Gen.: J. L. Cifuentes. Mgr.: R. Zuñiga Vega. Dir. Tec.: M. Mazariegos. – Station: Ch. A8 0.3/0.2 kW.

★ HAITI ★

TELE-HAITI (Comm.). – ADDR.: Port-au-Prince – L.P.: O. Gen. Mgr.: A. Apaid. – Station: Ch. A5 2.5/0.6 kW.

★ HONDURAS (REP.) ★

RADIO Y TELEVISION HONDUREÑA S.A. (Comm.), Tegucigalpa D. C. Te.: 12-93 or 22-41. – L.P.: Dir. Gen.: M. Brooks h. Dir. Tec.: A. D. Lardizabal. – Station: HRTW-TV Ch. A5 4/2 kW. exp. tr.

★ NICARAGUA ★

TELEVISION DE NICARAGUA, S. A. (Comm.):
FI: By adv. – ADDR.: Apdo. 1505, Managua. Cable: Tevenic. Te.: 5404. – L.P.: Dir. Gen.: R. O. Cano. Dir. Prgr.: H. Pascale. Dir. Tec.: Eng. A. Lopez. – Stations: YNSA-TV ch. A8 0.3/0.15 kW. V. – YNSA-TV ch. A6 6/3 kW.V. – D. PRGR.: D. 23.30–04.30.

★ PANAMA ★

RADIO RELOJ, Apdo. 5124, Panama City. Cable: Radioreloj. – L.P.: Dir. Gen.: Dr. O. A. Mocci. Mgr.: Lic. B. Prados de Mocci. Dir. Tec.: Ing. F. A. Lamparero. Dir. Publicity: A. D. Carrillo B. – Station: Ch. 5 164/175.15 Mc/s 500 Watt.
CORPO. PANAMENA DE RADIODIF. S. A., Panama: Ch. A4 64/32 kW. Colon: Ch. A6 0.5/0.25 kW.

★ WEST INDIES ★

NETHERLANDS ANTILLES.
TELE-CURACAO (Netherlands Antilles TV Corpo.) (Comm.): Station: Ch. E8 3.5 kW.
Planned st.: Tele Aruba PJA-TV (Comm.) ch. E8 3.5 kW (1961).

SOUTH AMERICA

★ ARGENTINA ★

All st'.s comm. – Def. 625.

PRIMERA TELEVISORA ARGENTINA S. A. (Argentina de Televisora), Avda. Leandro N. Alem 735, Buenos Aires. – L.P.: Dir. Gen. and O.: O. Ferreyra. Dir. Tec.: Ing. F.

Stations:

LS82 ch. A7 43 kW (P.I.E.) – LS83-TV ch. A9, "CA-DE-TE" 43 kW (P.I.E.). L.P.: Dir. Gen.: K. Lowe. Dir. Tec.: S. Castro. **Studio:** Av. F. Alcorta 3428, Cap. Federal. – LS85-TV ch. A13 "Rio de la Plata" S. A. **Studio:** Lima 1261, Cap. Federal.

RADIO BELGRANO (Go.), Buenos Aires. – **Station:** LR3-TV ch. A7 43/15 kW. **Planned st'.s.:** Buenos Aires LS84-TV ch. A11 (Dicon Difusora Contemporanea S. D.) Mar del Plata LU86-TV ch. A8 (Difusora Marplatense) – Mendoza LV89-TV ch. A7 (Juan Gomez).

★ BRAZIL ★

All st'.s. comm. exc. Televisão Globo (educ.) and TV Nacional (Go.)

Radio de Janeiro	chA.	kW
Soc. R. Emisoras Continental	9	25
Radio Record TV	13	25
Televisão Globo	11	25
R. Mayrink Veiga	7	25
Televisão Nac.	2	25
Televisão Rio S. A.	13	30
Televisão Tupi[1])	6	21
São Paulo		
Televisão Tupi	3	25
Televisão Bandeirantes	13	25
Radiodifusora de São Paulo, S. A.	4	25[2])
Televisão Gazeta	11	25[2])
Televisão Gazeta	2	25
Televisão Cultura	11	25
Televisão Excelsior	9	25
Televisão Record	7	0.25[3])
Radio Televisão Paulista, S. A.	5	25
Televisão Difusora São Paulo	31	50
Porto Alegre		
R. Televisão Tupi[1])	4	25
Televisão Record	22	50
Radio Televisão Paulista S. A.	28	50
Televisão Difusora São Paulo	18	50
Santos		
TV Rebratel	8	10[4])
Belo Horizonte		
Radio Televisão Itacolmi (R. Guarani S. A.)	4	25[4])
R. Inconfidencia	2	10
Curitiba		
Soc. R. Emissora Paranaense Ltd.	5	10[2])
Recife		
TV Pernambuco	6	
Televisão Jornal do Comercio a)	2	110
Brasilia		
Televisão Brasilia (TV Nacional)	3	
TV Goiania	6	
TV Rio	8	

1) Emissoras Associadas. 2) Projected stations. 3) Emisoras Unidas. 4) Satellite. a) **Addr.:** Rua do Lima, Recife – **L.P.:** Dir. Gen.: Dr. F. Pessoa de Queiroz Dir. Tec.: Dr. P. Pessoa de Queiroz – **D. PRGR.:** Mo. – Fri. 18.00–19.00, 22.00–02.00. Sat. & Sun. 14.00–02.00.

★ CHILE ★

CATHOLIC UNIVERSITY, Santiago and Valparaiso (exp.).

★ COLOMBIA ★

R. TELEVISORA NACIONAL (Go.).– **FI:** By state and adv. – **AD.:** 40% of prgrs. are non-comm. remainder carry comm. announcements. – **ADDR.:** Direccion General de la Radiotelevisora Nacional de Colombia, Apartado Nacional 1824, Bogota. – **L.P.:** Dir. Gen.: F. Restrepo S. Dir. Tec. and For.Rel.: W. Puth. **Stations:** All st'.s owned by Televisora Nacional. – **Call.:** HJRN-TV.

	ch.	kW		ch.	kW
Bogota	A9	5/2	Cali	A7	120/30 d.
Medellin	A3	25/12.5d[2])	Cali[1])	A10	10/2W.
Manizales	A5	40/20 d.	Manjui	A7	400/200[2])
Alto Magdalena	A7	40/20[2])	Madrono	A11	80/40
El Quindio	A9	40/20	Valle del Cauca[1])	A7	60/30
Boyaca	A7	20/10 d.	Paz del Rio[1])	A7	150/40W.
Tynja	A10	20/5	Bucaramanga[1])	A10	5/2

1) Satellite st'.s. 2) Exp. 3) Relay. – **Under Construction:** C. Quemado ch. A4 900/400 kW – El Carmen de Bolivar ch. A10 10/5 kW– Monteria ch. A7 100/50 kW – Las Jurisdicciones ch. A5 200/50 kW – Neiva ch. A9 80/40 kW – Purace ch. A11 40/20 kW – Galeras ch. A2 5/2,5 kW. **D. PRGR.:** Mo.–Fri. 23.20 (Sat. 21.30, Sun. 19.10)–04.00.

★ ECUADOR ★

QUITO: Station HCJB planned opening TV-st. begin 1961.

GUAYAQUIL: Television Ecuatoriana (Casa de la Cultura). **L.P.:** Gen. Mgr.: J. Rosenbaum. – **Station:** Ch. A4 600 Watts.

CULTURAL:

★ PERU ★

MINISTRY OF EDUCATION, Lima. – **L.P.:** Dir. Eng.: A. E. Mousalve M. Dir. Tec.: S. Romero C. – **Station:** OAD-TV7. – **D. PRGR:** D. 18.00–20.00. Ch. A7 0.1/0.05 kW.

COMMERCIAL:

R. EL SOL, Av. Uruguay 355, Lima. **L.P.:** Dir. Gen.: Eng. A. Pereyra. Dir. Prod.: A. Goicochea Luna. **Station:** Ch. A9 10/5 kW.

R. PANAMERICANA, Casilla 4392, Lima. – **L.P.:** Dir. Gen.: G. Delgado Parker. – **Station:** Ch. A13 4/2 kW. –

R. AMERICA, esquina de Montero Rosas y Mariano Carranza, Lima. – **Station:** Ch. A4 4/2 kW.

TELEVISORA SUPERVANA S. A., Arequipa – Ch. A2 – **Planned:** Victoria (OAX4X-TV).

★ URUGUAY ★

SAETA Sociedad Anonima Emisoras de Television y Anexos, (Comm.), Avda. Uruguay 1031. **Cable:** Saeta. **Te.:** 9-72-80. – **L.P.:** Dir. Gen.: R. Fontaina. Dir. Prgr.: R. Fontaina jr. Dir. Tec.: J. A. Gatti. – **Station:** Ch. A10 1.5 kW. – **Planned st'.s:** Servicio Offcial de Difusion Radio Electrica (SODRE – Go.) ch. A6 32.5 kW. – R. Monte Carlo ch. A4 25 kW.

★ VENEZUELA ★

TELEVISORA NACIONAL (Go.), Cerro Marin, Caracas. – **Station:** Def. 625 YVKA-TV ch. A5 37.2/18.6 kW. – **D. PRGR.:** 22.00–03.30.

TELEVISA VENEZOLANA (Comm.), Avda. S. Juan Francisco de la Salle, La Colina. – **Station:** YVLV-TV Caracas ch. A4 15/7.5 kW – **Satellite st'.s:** R. Valencia-TV, Valencia, ch. A11 0.33/0.16 kW. La Guaira: ch. A7 0.25/12 kW.

R. CARACAS TV (Comm.), Ed. R. Centro, Barcenas, Caracas. – **L.P.:** Dir. Gen.: A. Espina. Dir. Tec.: J. Marcano. Dir. Publ. Rel.: F. Cardona M. – **Stations:** YVKS-TV ch. A2 62/31 kW. Curimagua: A10 330/165 kW. Maracaibo: ch. A2 500/250 kW. Carabobo: ch. A7 12.8/6 kW. La Guaira: ch. A7 10/5 kW. Barquisimeto: ch. A2 0.5/0.25 kW. Valencia-Maracay: ch. A7 13/6.5 kW. Coro: ch. A10 330/115 kW. All st'.s satellite to Caracas YVKS-TV.

ONDAS DEL LAGO (Comm.), Maracaibo. – **L.P.:** Pres., Dir. Gen.: N. Vale. Dir. Tec.: I. Salcedo. – **Station:** Ch. A13 12/6 kW. – **D. PRGR:** 22.30–03.30.

R. VALENCIA TV (Comm.), Valencia, Estado Carabobo. – **L.P.:** Dir.: T. Gubaira. – **Station:** Ch. A3 4/2 kW. – **D. PRGR.:** D. 22.30–04.30.

GAZETTE

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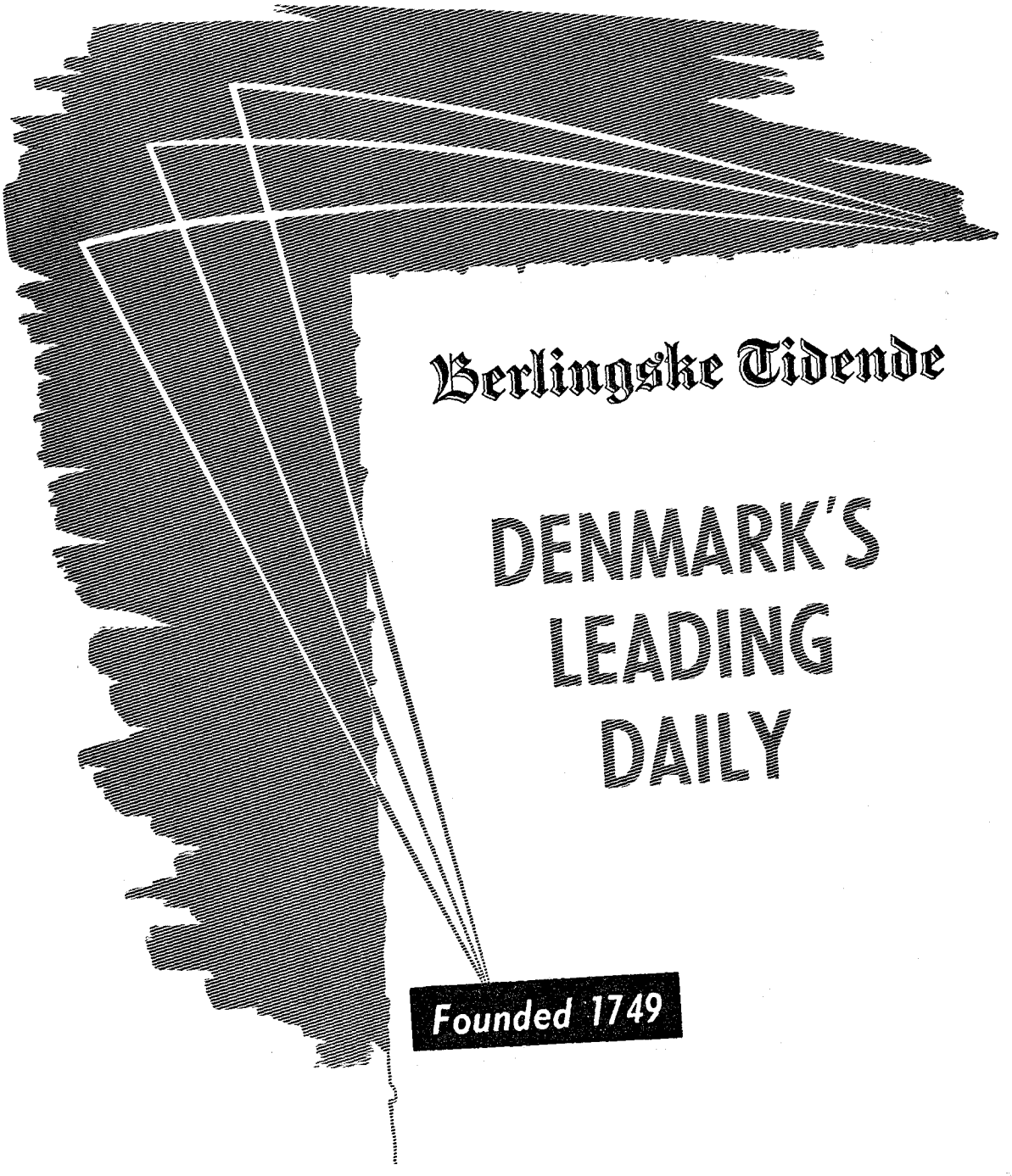
Berlingske Tidende
DENMARK'S
LEADING
DAILY
Founded 1749

LONG- AND MEDIUM WAVE STATIONS

EUROPE — NORTH AFRICA — NEAR EAST

For medium waves of the other countries see the individual countries.

Alg. = Algeria; Az. = Azores; Aust. = Austria; Belg. = Belgium; Bulg. = Bulgaria; C. Isl. = Canary Islands; Cyp. = Cyprus; Czecho. = Czechoslovakia; Den. = Denmark; F. = France; Faeroe. = Faeroe Islands; Finl. = Finland; G. = Germany; Gr. = Greece; Gt. Br. = Great Britain; Holl. = Holland. Hung. = Hungary; Icel. = Iceland; It. = Italy; Mon. = Monaco; Mor. = Morocco; No. = Norway; Port. = Portugal; Rum. = Rumania; REM = Red de Emisoras del Movimiento; Sp. = Spain; Sw. = Sweden; Switz. = Switzerland.

kc/s	Metres	kW	Stations
151	1987	500	**Moscow I** - USSR
—	1987	50	**Hamburg** - G.
155	1935	10	**Tromsø** - Norway
—	1935	150	**Brasov** - Rumania
164	1829	250/500	**Allouis** - France
173	1734	1000	**Munich (VOA)** - G.
—	1734	500	**Moscow I** - USSR
182	1648	100	**Reykjavik** - Iceland
—	1648	10	**Luleå** - Sweden
—	1648	120	**R. Ankara** - Turkey
—	1648	400	**R. Europe I** - Saar
185	1622	200	**Deutschlands.** - G.
191	1571	150	**Motala** - Sweden
200	1500	100	**Moscow II** - USSR
—	1500	400	**Droitwich** - Gt. Br.
209	1435	150	**Kiev I** - USSR
218	1376	200	**Oslo** - Norway
227	1322	500	**Warsaw I** - Poland
233	1287	500	**Luxembourg I**
236	1271	100	**Leningrad I** - USSR
245	1224	150	**Kalundborg I** - Den.
254	1181	200	**Lahti** - Finland
263	1141	150	**Moscow I** - USSR
—	1141	150	**R. Wolga** - DDR
272	1102.9	200	**CSI** - Czechoslov.
281	1068	100	**Minsk** - USSR
340	882.4	100	**Moscow II** - USSR
365	820	20	**Moscow II** - USSR
385	779	50	**Kharkov** - USSR
—	779	20	**Moscow II** - USSR
400	750	50	**Minsk** - USSR
433	693	10	**Oulu** - Finland
511	587	0.25	**Sulitjelma** - No.
520	577	2	**Braunschweig** - G.
—	577	1	**Joensuu** - Finland
—	577	0.2	**Bayreuth (BR)** - G.
—	577	5	**Nürnberg (BR)** - G.
—	577	0.2	**3 low power** - G.
—	577	5	**Cottbus (DDR)** - G.
—	576.9	10	**Aldrans II** - Aust.
—	576.9	10	**Lienz II** - Austria
529	561.1	5	**Schwerin(DDR)** - G.
—	561.1	150	**Beromünster** - Switz.
539	556.5	135	**R. Kossuth** - Hung.
—	556,5	0.05	**Bayonne II** - F.
540	556	0.005	**3 l. p.** (AFRS) - It.
548	547.4	100	**Odessa** - USSR
—	547.4	100	**Moscow III** - USSR
—	547.4	100	**Munich** (AFN) - G.
557	539	100	**Helsinki I** - Finland
—	538.6	50	**Cairo III** - Egypt.
—	538.6	1	**Timisoara II** - Rum.
—	538.6	50	**M. Ceneri** - Switz.
—	538.5	5	**Greifswald (DDR)**
—	538.6	1	**Guarda** - Portugal
566	530	100	**Athlone** - Ireland
—	530	10	**Caltanissetta** - It.
—	530	20	**Freies Berlin** - G.
—	530	0.1/0.05	**11 low power** - Aust.
575	522	100	**Mühlacker(SDR)** - G.
—	522	100	**Riga** - USSR
—	521.7	100	**Leipzig (DDR)** - G.
—	521.7	50/10	**Tel Aviv** - Israel
584	514	1	**Paris III** - France
—	513.7	1	**Sfax II** - Tunisia
—	513.7	5	**Aleppo** - Syria
584	513.7	25	**Klagenfurt II** - Aus.
—	513.7	10	**Salzburg II** - Aust.
—	513.7	150	**Wien II** - Austria
—	513.7	120	**Madrid (RNE)** - Sp.
593	505.9	150	**Sundswall** - Sweden
—	505.8	100	**Frankfurt (HR)** - G.
—	505.8	20	**Meissner (HR)** - G.
—	505.8	60	**Sofia II** - Bulgaria
—	506	1	**Oujda** - Morocco
602	498.4	5	**Karl-Marx-Stadt (DDR)** - G.
—	498.4	2	**Damascus** - Syria
—	498	100	**Lyon I** - France
606	495	20	**Nicosia** - Cyprus
610	491.8	2	**R. Bahrain**
611	491	10	**Nürnberg/Grafenwöhr** - Germany
—	491	140	**Sebaa-Aioun** - Mor.
—	491	5	**Eidar** - Iceland
—	491	200	**Berliner Rundfunk I (DDR)** - G.
—	491	100	**Petrozavodsk** - USSR
—	491	100	**Sarajevo** - Yugosl.
620	483.9	300	**Cairo IV** - Egypt.
—	483,9	0.25	**Tehran (AFRS)** - Iran
—	483.9	150	**Bruxelles I** - Belg.
629	447	100	**Vigra I** - Norway
—	476.9	100	**Tunis I** - Tunesia
—	496.9	25	**Aldrans I** - Austria
—	476.9	25	**Lauterach I** - Aust.
—	476.9	1	**Lienz I** - Austria
—	476.9	20	**Erfurt (DDR)** - G.
638	470.5	100	**BBC** - Cyprus
—	470.5	5	**Sevilla (RNE)** - Sp.
—	470.2	150	**Praha** - Czecho.
640	468.8	5	**R. Tabriz** - Iran
647	463.6	100	**Simferopol** - USSR
—	464	150	**Daventry** - Gt. Br.
—	464	2	**4 low power** - Gt. Br.
652	460	0.8	**Tel Aviv** - Israel
656	457.3	20	**Bolzano I** - Italy
—	457.3	180	**Firenze I** - Italy
—	457.3	80	**Napoli I** - Italy
—	457.3	35	**Torino I** - Italy
—	457.3	10	**Venezia I** - Italy
—	457.2	20	**Greifswald (DDR)**
—	457.3	150	**Murmansk** - USSR
660	454.5	20	**R. Kabul** - Afghan.
—	454.5	1	**R. Rasht** - Iran
665	451.2	15	**Athens III** - Greece
—	421.2	1	**Hoefn** - Iceland
—	451.2	50	**Damascus** - Syria
—	451	20	**Bad Dürrheim** - G.
—	451	135	**Lisboa I** - Portugal
—	451	100	**Vilnius I** - USSR
674	445.1	10	**Bodö** - Norway
—	445.1	50	**Tjernovtsy** - USSR
—	445	150	**Rennes I** - France
—	445	0.1/0.05	**8 low power** - Aust.
677	443	20	**Jerusalem** - Jordan
683	439	150	**Beograd** - Yugosl.
—	439	100	**Berlin/Hof (RIAS)**
—	439	20	**R. Madrid** - Spain
692	433.5	20	**Moscow II** - USSR
—	434	2	**Cromer** - Gt. Br.
—	434	2.5	**La Coruña** - Spain
—	434	20	**Nicosia** - Cyprus
—	433.8	200	**Erfurt (DDR)** - G.
—	434	150	**Moorside Edge** Gt.B.
—	434	2	**Whitehaven** - Gt.Br.
—	434	0.1/0.05	**10 low power** - Aust.
701	427.8	5	**Norden (NDR)** - G.
—	427.8	5	**Lingen (NDR)** - G.
—	428	2	**Aachen (WDR)** - G.
—	428	2	**Herford (WDR)** G.
—	428	150	**Istanbul** - Turkey
—	428	140	**Sebaa-Aioun** - Mor.
—	428	20	**Finmark** - Norway
—	427.2	100	**Bratislava** - Czecho.
710	422	150	**Marseille I** - France
—	422	100	**Stalino** - USSR
—	422.5	10	**Tallinn** - USSR
710	422.5	1	**Jerusalem** - Israel
719	417.2	135	**R. Free Europe** - G.
—	417.2	—	**BBC** - Cyprus
—	417.2	25	**Norte II** - Portugal
—	417.2	150	**Östersund** - Sweden
—	417.2	2	**Aleppo** - Syria
723	414	50	**Jeddah** - S. Arabia
728	412	25	**Klagenfurt I** - Aust.
—	412	150	**Athens I** - Greece
—	412.1	200	**Deutschlands.** - G.
737	407.1	40	**Hof (RIAS)** - Germ.
—	407.1	100/10	**Tel Aviv - Israel**
—	407.1	5	**Akureyri** - Iceland
—	407.1	300	**Poznan** - Poland
—	407.1	25	**Barcelona** - Spain
—	407.1	20	**Moscow II** - USSR
746	402	20	**Aleppo** - Syria
—	402	120	**Hilversum I** - Holl.
755	397.3	20	**Kuopio** - Finland
—	397.3	50	**Timisoara I** - Rum.
—	397.3	135	**Lisboa II** - Port.
—	397.3	2	**Siegen (WDR)** - G.
764	392.6	150	**Sottens** - Switzerl.
—	392.6	10	**Rostov-Don** - USSR
773	388.1	150	**Stockholm** - Sweden
—	388.1	2	**Malmberget** - Swed.
—	388.1	5	**Valencia** - Spain
—	388.1	50	**Cairo I** - Egypt
—	388.1	1	**Salzburg I** - Austria
—	388.1	0.1/0.05	**7 low power** - Aust.
782	383.6	200	**Deutschlands.** - G.
—	383.6	100	**R. Clube Portuguese** - Portugal
—	383.6	100	**Kiev II** - USSR
—	383.6	2	**Vatican Radio**
791	379.2	100	**Limoges I** - France
—	379.2	50	**Thessalonika** (VOA) - Greece.
800	375	100	**München (BR)** - G.
—	375	100	**Leningrad** - USSR
—	375	5	**R. Sevilla** - Spain
—	375	100	**Amman** - Jordan
809	371	100	**Burghead** - Gt. Bt.
—	371	5	**Redmoss** - Gt. Br.
—	371	2	**Dumfries** - Gt. Br.
—	371	100	**Westerglen** - Gr. Bt.
—	370.8	135	**Skopje** - Yugosl.
—	370.8	10	**R. Barcelona** - Spain
—	370.8	10	**Moscow II** - USSR
—	370.8	5	**Aden** - Aden
818	366.7	10	**Trieste I** - Italy
—	366.7	300	**Cairo V** - Egypt
—	366.7	300	**Warszava II** - Pol.
—	367	1	**Casablanca** - Mor.
—	367	100	**Andorradio**
820	360	1	**R. Gorgan** - Iran
827	363	100	**Sofia I** - Bulgaria
—	363	20	**Tetuan** - Morocco
—	363	40	**Freiburg (SWF)** G.
—	363	0.5/1.5	**3 low p. (SWF)** - G.
827	363	20	**Moscow II** - USSR
—	363	3	**Kaiserl./Sigmar./** (SWF) - Germany
—	363	3	**Baden-Baden** (SWF) - Germany
833	360	1	**Benghazi** - Libya
836	359	10	**Ylivieska** - Finland
—	359	150	**Nancy I** - France
—	359	4	**Beyrouth** - Lebanon
—	359	20	**Kharkov** - USSR
845	355	0.2	**Helsinki III** - Finl.
—	355	150	**Roma II** - Italy
850	352.9	5	**Huelva (RNE)** - Sp.
—	352.9	2	**R. Huelva** - Spain
854	351.3	150	**Bucuresti I** - Rum.

kc/s	Metres	kW	Stations
854	351	7.5	**R. Madrid EAJ2**
—	351	20	**Berlin (RIAS)** - G.
863	348	150	**Paris I** - France
—	347.5	10	**Damascus** - Syria
872	344	150	**Frankfurt AFN** - G.
—	344	150	**Kaiserslaut.** - Germ.
—	344	20/50	**R. Petöfi II** - Hung.
—	344	30	**R. Zaragoza** - Sp.
—	344	150	**Moscow III** - USSR
881	340.5	20	**Titograd** - Yugosl.
—	340.5	100	**Berlin (DDR)** - G.
—	340.5	100	**Deutschlandsender**
—	341	8	**Penmon** - Gt. Br.
—	341	5	**Towyn** - Gt. Br.
—	341	2	**Wrexham** - Gt. Br.
—	341	100	**Washford** - Gt. Br.
890	337.1	200	**Alger I** - Algeria
—	337.1	15	**Linz I** - Austria
—	337.1	20	**Bergen I** - Norway
—	337.1	20	**Kristianssand** - No.
—	337.1	20	**Tröndelag** - Norway
—	337.1	20	**Uzjgorod** - USSR
895	335	100	**R. Teheran** - Iran
899	333.7	150	**Milano I** - Italy
908	330	140	**Brookmanns Park** - Gt. Br.
—	330	200	**R. Baghdad** - Iraq
—	330	5	**Miercurea** - Ruman.
912	328.9	35	**Reichenbach (DDR)** - Germany
915	326	2	**Paphos** - Cyprus
917	327.2	5	**Tetuan** - Morocco
—	327.2	1	**Rabat** - Morocco
—	327.2	135	**Ljubljana I** - Yugos.
920	326	1	**R. Sanandaj** - Iran
926	324	150	**Brussels II** - Belg.
—	324	100	**Cairo II** - Egypt
—	324	10	**Nis** - Yugoslavia
935	321	27	**Rabat** - Morocco
—	321	100	**Lvov** - USSR
—	321	10	**Berlin AFN** - G.
944	318	100	**Toulouse I** - France
953	314.6	20	**R. Intercont.** - Sp.
—	314.6	100/15	**Praha** - Czechoslov.
962	312	100	**Turku I** - Finland
—	312	100	**Tunis II** - Tunisia
—	312	5	**Paris IV** - France
971	309	5	**Göttingen (NDR)** G.
—	309	100	**Hamburg (NDR)** G.
—	309	100	**Langenberg (WDR)**
—	309	20	**Smolensk** - USSR
—	309	50	**Odessa** - USSR
980	306.1	100/200	**Alger II** - Algeria
—	306.1	2	**Assiout** - Egypt.
—	306.1	2	**Trieste A** - Italy
—	306.1	150	**Göteborg** - Sweden
989	303.3	300/200	**Berlin RIAS** - G.
—	303.3	8	**R. Malaga** - Spain
—	303.3	-10	**Beirouth** - Libanon
998	300.6	10	**Heidelberg (SDR)** G.
—	300.6	0.2	**Buchen (SDR)** - G.
—	300.6	100	**R. Andorra**
—	300.6	100	**Kishinjov** - USSR
1000	300	1	**R. Rezaieh** - Iran
1007	298	120	**Hilversum II** - Holl.
—	298	50	**Corfu** - Greece
—	298	6	**R. Málaga** - Spain
1016	295	120	**Rheinsender (SWF)**
—	295	1	**Tanger** - Morocco
—	295	20	**Odessa** - USSR
1022	293	100	**Madrid (RNE)** - Sp.
1025	292.7	100	**Dobl** - Austria
—	292.7	100	**Kronstorf** - Austria
—	292.7	10	**Lauterach II** - Aust.
—	292.7	0.5	**Haifa** - Israel
—	292.7	5	**R. S. Sebastian** - Sp.
—	292.7	—	**Aden** - Aden
1034	290.2	0.25	**Ansbach/Bad Kissingen (AFN)** - G.
—	290.1	20	**Milano II** - Italy
—	290.1	25	**Venezia II** - Italy
—	290.1	10	**Genova II** - Italy
—	290.1	5	**San Remo II** - Italy
—	290.1	5	**Pescara II** - Italy
—	290.1	25	**Napoli II** - Italy
—	290.1	100	**Tallinn I** - USSR

kc/s	Metres	kW	Stations
1034	290.1	25	**Parede** - Portugal
1043	287.6	2	**Salonika** - Greece
—	287.6	240	**Dresden (DDR)** - G.
—	287	1	**Oujda** - Morocco
1052	285.3	0.05	**2 low power** - Aust.
—	285.3	2	**Barnstaple** - Gt. Br.
—	285.3	120	**Start Point** - Gt. Br.
—	285.3	20	**Bucuresti II** - Rum.
—	285.1	50	**R. Tripoli** - Libya
—	285.1	5	**Suhl (DDR)** - Germ.
1060	285	1	**R. Shiraz** - Iran
1061	283	25	**Norte I** - Portugal
—	283	60	**Kalundborg** - Denm.
—	283	20	**Cagliari I** - Italy
1070	280	100	**Paris II** - France
—	280	20	**Marseille II** - France
—	280	20	**Bordeaux II** - Fr.
—	280	1	**Touggourt** - Algeria
—	280	20	**Dnjepropetr.** - USSR
1079	278	—	**BBC** - Malta
—	278	2	**Minia** - Egypt
—	278	2	**Luxor** - Egypt
—	278	2	**Bremerhafen** - G.
—	278	60	**Katowice** - Poland
—	278	2	**Plauen (DDR)** - G.
—	278	1/0.2	**4 low power** - Spain
—	278	5	**La Voz de Levante (REM)** - Spain
—	278	5	**La Voz de Vigo** - Sp.
1079	278	5	**R. Oviedo** - Spain
—	278	5	**Voz de Navarra** - Sp.
1088	276	150	**Droitwich** - Gt. Br.
—	276	7.5	**Postwick** - Gt. Br.
—	276	50	**Tirana** - Albania
1090	275.3	1	**R. Kermanshah** Iran
1094	274	2	**R. Panades** - Spain
1097	273.5	150	**Bratislava** - Czecho.
—	273.5	1/2	**13 low power** - Sp.
1100	272	1	**R. Mash Had** - Iran
1106	271.2	100	**Stuttgart (AFN)** G.
—	271.2	2/0.08	**16 low power** - Sp.
—	271.2	100	**Mogilev** - USSR
—	271.2	100	**Vilnius II** - USSR
1115	269.1	50	**Bologna II** - Italy
—	269.1	5	**Messina II** - Italy
—	269.1	2	**Trieste II** - Italy
—	269.1	1	**Aosta II** - Italy
—	269.1	40	**Bari II** - Italy
—	269.1	10	**Pisa II** - Italy
—	269.1	0.3/0.02	**5 low power** - No.
—	269.1	1	**Bergen** - Norway
—	269.1	1	**Namsos** - Norway
—	269.1	1	**Notodden** - Norway
—	266.9	0.1/0.5	**8 low power** - Aust.
—	266.9	20	**Leningrad** - USSR
1120	267	0.3	**R. Cazorla** - Spain
1124	266.9	3	**Barcelona** - Spain
—	266.9	10	**Bruxelles II** - Belg.
—	266.9	5	**Varna** - Bulgaria
—	266.9	0.1/0.5	**8 low power** - Aust.
—	266.9	20	**Leningrad** - USSR
1133	264.8	2	**Bilbao EAJ28** - Sp.
—	264.8	135	**Zagreb** - Yugoslavia
—	264.8	15	**Rijeka I** — Yugosl.
1142	262.7	20	**Constantine I** - Alg.
—	262.7	40	**Oran I** - Algeria
1142	262.7	0.05	**Rottenmann** - Aust.
—	262.7	0.25	**3 low power AFN** G.
—	262.7	5	**Bremerhafen (AFN)**
—	262.7	2	**Sohag** - Egypt.
—	262.7	20	**Kaliningrad** - USSR
1142	262.7	1/2	**16 low power** - Spain
1151	261	100	**Lisnagarvey** - Gt.Br.
—	261	2/0.25	**2 low power** - Gt.Br.
—	261	100	**Stagshaw** - Gt. Br.
—	260.9	50	**Cluj** - Rumania
—	260.9	0.3	**R. Manises** - Spain
1160	259	150	**Strasbourg I** - Fr.
1169	256.6	10	**Porto** - Port.
—	256.6	6	**Koper** - Yugoslavia
—	256.6	3	**Ulm (SDR)** - G.
—	256.6	10	**Heilbronn (SDR)** G.
—	256.6	1	**Thessaloniki** Greece
—	256.6	150	**Kiev** - USSR
—	256.6	1	**Jerusalem** - Israel
—	256.6	1	**Colomb-Bechar** Alg.

kc/s	Metres	kW	Stations
1178	254.7	100	**Hörby** - Sweden
—	254.7	2	**Assouan** - Egypt.
—	254.7	5	**Cuenca (RNE)** - Sp.
1186	253	0.06	**Megara** - Greece
1187	252.7	135	**Petöfi I** - Hungary
—	252.7	1	**Casablanca** - Mor.
—	252.7	2/0.1	**23 low power** - Spain
1190	252	1	**R. Kerman** - Iran
1196	251	150	**Munich (VOA)** - G.
—	251	20	**Bernburg (DDR)** G.
—	251	1	**Marrakech** - Mor.
—	251	0.3	**R. Picasent** - Spain
1205	249	100	**Bordeaux I** - F.
—	249	10	**Haifa** - Israel
1209	248	0.4	**R. Carlet** - Spain
1214	247	50	**Brookmans Park** -
—	247	20	**Burghead** - Gt. Br.
—	247	10	**Lisnagarvey** - -
—	247	50	**Moorside Edge** -
—	247	50	**Westerglen** - Gt. Br.
—	247	2/0.25	**5 low power** - Gt.Br.
—	247	5	**Tallinn II** - USSR
—	247	20	**Kursk** - USSR
1223	245.3	20	**La Voz de Madrid**
—	245.3	20	**Stara Zagora** - Bul.
—	245.3	100	**Falun** - Sweden
1232	243.5	50	**Tanger** - Morocco
—	243.5	100	**Bratislava** - Czecho.
—	243.5	150	**Moscow III** - USSR
1236	242.7	0.05	**Sparta** - Greece
1241	242	25	**Vasaa** - Finland
—	242	20	**Lille II** - France
—	242	20	**Lyon II** - France
—	242	20	**Nancy II** - France
—	242	20	**Nice III** - France
—	242	20	**Pau** - France
—	242	20	**Brest I** - France
—	242	24	**Rennes II** - France
—	242	20	**Tiraspol** - USSR
1248	240	1.2	**R. Juventud** - C. Isl.
1250	240	5	**Dublin, Cork** - Eire
—	240	50	**Wroclaw** - Poland
—	240	235	**Balatonszab.**, Hung.
—	240	2/0.2	**23 low power** - Spain
1258	238	0.35	**R. Asturias** - Spain
1259	238.3	150	**Courier (VOA)** - Gr.
—	238.3	5	**R. Valencia** - Spain
1268	236.6	100	**Novi Sad** - Yugosl.
—	236.6		**R. Asturias** - Spain
1277	234.9	10	**Alexandria** - Egypt
—	234.9	100	**Strasbourg II** - F.
—	234.9	1	**Tel Aviv** - Israel
—	234.9		**Moscow III** - USSR
1286	233	100	**CS I** - Czechoslov.
—	233	2	**Lisboa** - Port.
1295	231.7	100	**Norden Osterloog** - G. (BBC European)
—	231.7	2	**R. Coruña** - Spain
1300	230.7	1	**Athens (FBS)** - Gr.
1304	230	20	**Constantine II** - Alg.
—	230	40	**Oran II** - Algeria
—	230	0.25/1	**6 low power AFN**
—	230	5	**VozdeGuipuzcoa** Sp.
—	230	2/1	**13 low power** - Spain
—	230	50	**Szczecin** - Poland
—	230	30	**Gdansk** - Poland
1313	228.5	100	**Stavanger** - No.
—	228.5	2	**Las Palmas** - C. Isl.
—	228.5	0.1/0.05	**7 low power** - Aust.
—	228.5	2	**Cairo VI** - Egypt
—	228.5	10	**Damascus** - Syria
1320	227	1	**R. Isfahan** - Iran
1322	226.9	100	**Leipzig** - G.
—	226.9	0.15	**R. Ribatejo** - Port.
—	226.9	100	**Kharkov II** - USSR
—	226.9	1/2	**23 low power** - Spain
1331	225.4	1/2	**4 low power st.** - It.
—	225.4	80	**Roma I** - Italy
—	225.4	50	**Genova I** - Italy
—	224.4	25	**Bologna I** - Italy
—	225.4	25	**Pescara I** - Italy
—	225.4	20	**Bari I** - Italy
—	225.4	12	**Palermo I** - Italy
—	225.4	2	**R. Salamanca** - Sp.
1336	226.6	1	**Haifa** - Israel
1340	223.8	100	**R. Iran** - Iran

kc/s	Metres	kW	Stations
1340	223.8	25	**Nyiregyháza**, Hung.
—	223.8	25	**Szombathely**, Hung.
—	223.8	15	**Pécs** - Hungary
—	223.8	0.4	**2 low power** - Hung.
—	223.8	150	**Crowborough**, G.Br.
1344	224	10	**R. Kuwait** - Kuwait
1349	222.4	10	**Nantes I** - France
—	222.4	20	**Clermont** - France
—	222.4	20	**Limoges II** - France
—	222.4	20	**Grenoble I** - France
—	222.4	20	**Toulouse II** - France
—	222.4	20	**Valmiera** - USSR
—	222.4	20	**Kuldiga** - USSR
—	222.4	20	**Riga II** - USSR
—	222.4	0.2	**Korça** - Albania
1355	221.3	0.2	**Kavalla** - Greece
1358	221	1/0.1	**2 low power** - Port.
—	221	20	**Bremen** - Germany
—	221	2/0.1	**23 low power** - Spain
1367	219.5	2/0.1	**9 low power** - Italy
—	219.5	25	**Venezia III** - Italy
—	219.5	12	**Napoli III** - Italy
—	219.5	10	**Milano III** - Italy
—	219.5	10	**Genova III** - Italy
—	219.5	5	**Roma III** - Italy
—	219.5	5	**Torino III** - Italy
—	219.5	5	**Thorshavn** - Faeroe
—	219.5	0.5	**4 low power** - Switz.
—	219.5	24	**Bydgoszcz** - Poland
—	219.5	10	**Porto** - Portugal
1368	219.3	0.8	**2 low power** - Spain
1375	218	2	**R. Zamora** - Spain
1376	218	150	**Lille I** - France
1385	217	150	**Kaunas** - USSR
—	217	50	**Athens II** - Greece
—	217	1.25	**Amalias** - Greece
—	217	2/0.04	**7 low power** - Sp.
1390	215.8	1	**Jerusalem** - Israel
—	215.8	5	**R. Badajoz** - Spain
—	215.8	1	**R. Ahwaz** - Iran
1395	215.2	7.5	**Tripoli** - Libya
—	215.2	25	**Graz I** - Austria
—	215.2	0.25	**Bitburg AFN** - G.
—	215.2	0.15/0.25	**19 low power** - Sw.
—	215.2	0.15	**Angra do Heroismo** Azores
1403	213.8	2/0.2	**2 low power** - Spain
—	213.8	10	**Montpellier I** - F.
—	213.8	20	**Rouen** - France
—	213.8	20	**Nice II** - France
—	213.8	20	**Brest II** - France
—	213.8	5	**Comotini** - Gr.
—	213.8	20	**Tartu** - USSR
1412	212.4	3	**Bad Mergentheim (SDR)** - G.
—	212.5	2	**2 low power** - Sp.
—	212	5	**Maribor** - Yugosl.
—	212	2	**Helsinki II** - Finl.
—	212	20	**Pristina** - Yugosl.
—	212	50	**Split** - Yugoslavia
—	212	0.4	**Club Tenerife** C. Isl.
1420	211	0.4	**R. Almeria** - Spain
1421	211.2	0.05	**Sfax I** - Tunesia
—	211.2	40	**Alger II** - Algeria
—	211.1	5	**Tjernigov** - USSR
—	211.1	100	**R. Saarbrücken** - G.
1421	211.1	1	**Tampere** - Finland
1425	211.1	7.5	**Nicosia** - Cyprus
1428	210	0.4	**R. Luarca REM** - Sp.
1430	210	10	**Copenhagen** - Denm.
—	210	5	**R. Mallorca** - Spain
—	210	70	**Skive** - Denmark
—	210	5	**Bancasa** - Rumania
1439	208	350	**Luxembourg II**
—	208	7.5	**Nicosia** - Cyprus
1440	208.5	1	**R. Sagunto** - Spain
—	208.3	1	**R. Zahedan** - Iran
1448	207.2	20	**Torino II** - Italy
—	207.2	12	**Palermo II** - Italy
—	207.2	5	**Ancona II** - Italy
—	207.2	5	**Catania II** - Italy
—	207.2	5	**Firenze II** - Italy
—	207.2	5	**Sassari II** - Italy
—	207.2	1/0.25	**25 low power** - It.
—	207.2	2/0.2	**5 low power** - Sp.
—	207.2	2/0.15	**12 low power** - Sw.
—	207.2	1	**Coimbra** - Port.
1450	207	2	**R. Jaen** - Spain
1457	206	0.05	**3 low power** - Aust.
—	206	2	**Redruth** - Gt.Br.
—	206	20	**Clevedon** - Gt.Br.
—	206	10	**Bartley** - Gt.Br.
—	206	2	**Brighton** - Gt. Br.
—	206	1	**Folkestone** - Gt.Br.
—	206	2	**Bexhill** - Gt.Br.
—	205.9	20	**Craiova** - Rumania
1460	205.4	0.4	**Voz de Bur.** - Sp.
1466	205	400	**Monte Carlo** - Mon.
—	204.6	1/0.25	**6 low power** - Nor.
1470	204	0.8	**R. Avila** - Spain
1475	203.4	2	**2 low power** - Spain
—	203	150	**Wien I** - Austria
1480	203.4	2/0.07	**9 low power** - Spain
1484	202.2	0.2	**St. Pölten** - Aust.
—	202.2	0.25	**Bone** - Algeria
—	202.2	2	**Copenhagen I** - Den.
—	202.2	0.25	**Ålborg** - Denmark
—	202.2	0.25	**Tønder** - Denmark
—	202.2	0.5	**Casablanca** - Mor.
—	202.2	1	**Pietarsaari** - Finl.
—	202.2	1	**Pori** - Finland
—	202.2	0.2	**Tammissaari** - Finl.
—	202.2	0.2	**Turku II** - Finland
—	202.2	1/0.05	**8 low power** - F.
—	202.2	0.5	**R. Gibraltar**
—	202.2	1	**2 low power** - Rum.
—	202.2	1/0.1	**2 low power** - Port.
—	202.2	2	**Barrow** - Gt.Br.
—	202.2	2	**Ramsgate** - Gt.Br.
—	202.2	1	**Volos** - Greece
—	202.2	5	**Freies Berlin** - G.
—	202.2	0.2	**14 low power SDR** G.
—	202.2	0.25	**Keflavik** - Iceland
—	202.2	0.03	**Nordfjördur** - Icel.
—	202.2	2/0.1	**13 low power** - It.
—	202.2	1	**Tripoli (FBS)** - Lib.
—	202.2	1	**R. Club de Madeira**
—	202.2	0.25	**P. Lyautey** - Mor.
—	202.2	0.25/0.025	**4 low power** - No.
—	202.2	8	**Lodz** - Poland
—	202.2	1	**3 low power** - Pol.
—	202.2	1	**2 low power (BR)** G.
1484	202.2	2/0.05	**8 l. p.** - Yugosl.
—	202.2	2	**2 low power** - Sp.
—	202.2	2	**3 low power** - Czech.
—	202.2	2	**Pavlovo** - Bulgaria
1487	202.1	2	**R. Rioga** - Spain
—	202.1	3	**R. Lugo** - Spain
1490	201.1	0.8	**R. Alcoy** - Spain
1493	201	2/0.2	**13 low power** - Sp.
—	201	1/0.05	**7 low power** - F.
—	201	5	**Gomel** - USSR
—	201	5	**Rhodos** - Greece
—	201	0.05/0.035	**9 low power** - Aust.
1495	201	0.2	**R. Cadiz** - Spain
1500	200	0.25	**AFRS** - Azores
—	200	0.5/0.04	**5 low power AFN** -
—	200	2	**R. Atlantico** - C. Isl.
—	200	0.5/0.04	**4 low power** - Spain
1502	199.7	0.25/0.05	**5 low power AFN** G.
—	199.7	60	**Krakow** - Poland
—	199.7	0.8	**Münster (WDR)** G.
—	199.7	30	**Rzeszow** - Poland
—	199.7	2	**3 low power** - Sp.
1504	199.6	0.2	**R. Leon** - Spain
1510	198.5	1	**Tripoli** - Libya
1511	198.4	2	**R. Murcia** - Spain
—	198.4	20	**Brussels III** - Belg.
—	198.4	1	**Patras** - Greece
—	198.4	5	**Chania** - Greece
1518	197.6	0.06	**R. Adra** - Spain
1519	197	0.2	**R. Elche** - Spain
1520	197.4	15	**CSI** - Czechosl.
1529	196.2	0.075	**Porjus** - Sw.
—	196.2	100	**Vatican Radio**
1538	195	40	**Ravensburg** - G.
—	195	10	**Reutlingen** - G.
1540	195	0.6	**R. Vich (REM)** - Sp.
1546	194	0.25/1	**13 synchr.** - Gt. Br.
—	194	5	**Vinnitsa** - USSR
1554	193.1	60	**Nice I** - France
—	293.1	5	**Baranovitji** - USSR
1562	192.1	1	**Covilha** - Portugal
—	192.1	1.25	**Amalias** - Greece
—	192.1	2/0.25	**14 low power** - Sw.
1570	191.1	10	**Flensburg NDR** G.
—	191.1	5	**Michelet** - Algeria
—	191.1	0.05	**R. Tarragona** - Sp.
—	191.1	5	**Seelow (DDR)** - G.
—	191.1	0.05	**Diyarbakir** - Turkey
—	191.1	0.25	**Heraklion** - Greece
1571	191	1	**Santa Maria** - Az.
1575	190.6	0.05	**R. Monovar** - Spain
1578	190.1	2/0.1	**17 low power** - Italy
—	190.7	10	**Em. de Norte Reunidos** - Portugal
—	191.1	10	**Fredriksstad** - Nor.
—	191.1	2	**Nordkapp** - Norway
1580	190	0.25	**Athens** - Greece
1585	189	1	**Tripoli** - Libya
1586	189.1	5	**Kiel (NDR)** - G.
—	189.1	5	**Osnabrück (NDR** G.
—	189	5	**Bonn (WDR)** - G.
—	189	3	**Kleve (WDR)** - G.
—	189	40	**Hannover (NDR)** G.
—	189	40	**Oldenburg (NDR)** -
1590	188.7	0.5	**Athens (AFRS)** Gr.
1594	189	15	**Miskolc** - Hung.
—	189	0.4	**Magyaróvár** - Hung.
—	188.2	0.6	**Bougie** - Algeria
—	188	2	**Esbjerg** - Denmark
—	188	0.05/1	**2 low power** - France
—	188	5	**Hengelo** - Holl.
—	188	5	**Hoogezand** - Holl.
—	188	5	**Hulsberg** - Holl.
—	188	30	**Bialystok** - Poland
—	188	1	**2 low power** - Pol.
—	188	1	**Praha** - Czechosl.
—	188	1	**Lisboa** - Portugal
—	188	0.25	**3 AFRS** - Morocco
—	188	0.15	**Funchal** - Madeira
—	188	2/0.1	**6 low power** - It.
—	188	0.15/0.075	**7 low power** - Sw.
1602	187	20/40	**Nürnberg I (BR)** G.
—	187	20	**Land/Isar (BR)** - G.
—	187	20	**Kirchheim (BR)** G.
—	187	1	**3 low power (BR)** G.
1607	186	0.9	**R. Tortosa** - Spain

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SHORT WAVE STATIONS OF THE WORLD

Moscow frequencies are omitted from the list as they are changed very often. All the Moscow frequencies reported are shown in the USSR-text. – * Standard Frequency Station Time Signal Station. Br. = Brazil, Cl. = Cultura, Col. = Colombia, Czecho. = Czechoslovakia, Ger. = Germany, Guat. = Guatemala, Hon. = Honduras, Isl. = Island. Venez. = Venezuela.**

kc/s	m	kW	Call	Stations and countries	Rem.
2330	128.7	0.3	YDI	Djember, Indonesia	
	128.7	1	YDM6	Sibolga, Indonesia	
2350	127.6	1	YDW	Pontianak, Indonesia	
	127.6	1	YDJ3	Jogjakarta, Indonesia	
	127.6			Shantung, China	
2360	127.1	1	YVQG	R. Carupano, Venezuela	
	127.1	0.25	–	R. Cultura do Nordeste, Br.	
2370	126.6			R. Cl. Flumininse, Br.	
	126.6	1	YDI3	Surabaja, Indonesia	
2380	126.0	0.35	XESE	Mexico, Mexico	
2390	125.5	0.1	YDN	Kotaradja, Indonesia	
	125.5	0.3	YDA6	Tjirebon, Indonesia	
	125.5	1		R. Por um Mundo Melhor, Br.	
2405	124.7	0.3		Seoul (VUNC) Korea	
2410	124.1	1		R. Sirena, Brazil	
	124.1	0.25	4VU	R. Lumiere, Haiti	
2420	123.9	0.25	YDA2	Bandung, Indonesia	
	123.9	8		R. Martinique, Martinique	
	123.9	1	YDU7	Denpassar, Indonesia	
	123.9	0.5	ZYW32	R. Carajá (de) Anapolis, Br.	
2430	123.5	1	YDK2	Palembang, Indonesia	
2440	122.9	1	YDG2	Surakarta, Indonesia	
	122.9	1	YVLG	R. Girardot, Venezuela	
2442	122.9	0.5	4XB51	Tel Aviv, Israel	
2450	122.5	0.5	ZYR231	Cultura de Aracatuba, Br.	
2460	121.9	1	YDB	Djarkarta, Indonesia	
	121.9	1	YDZ	Ternate, Indonesia	
	121.9	0.5	ZYR99	R. Cacique, Brazil	
2470	121.5	1	YVNI	R. Carora, Venezuela	
2475	121.2			Chekiang, China	
2480	120.9	1	YDL2	Padang, Indonesia	
2490	120.5	1	YDH	Semarang, Indonesia	
	120.5		YVNL	R. Miranda, Venezuela	
	120.5	0.3	YDQ4	Makassar, Indonesia	
*2500	120	0.5	MSF	Teddington, Gt. Britain	
*	120	1	WWV	Lanham, USA	
*	120	2	JJY	Tokyo, Japan	
*	120		HBN	Neuchâtel, Switzerland	
*	120	1	OMA	Praha, Czechoslovakia	
*	120	0.25	FFH	Bagneux, France	
2510	119.5	10	HLK50	Seoul, Korea	
2850	105.3			Pyongyang, Korea	
*3170	94.06	8	OMA	Praha, Czechoslovakia	
3202	93.69	2		Bangkok, Thailand	
3204	93.64	5		Ibadan, Nigeria	
3205	93.60	10	YDA	Bandung, Indonesia	
3214	93.34	1	YDS	Menado, Indonesia	
3215	93.30	3.5	BED59	Taipei (BBC), Taiwan	
3221	93.13	7.5	CR7BM	R. Clube de Mozambique	
3223	93.09	1	YDX	Mataram, Indonesia	
3232	92.82	4		Tananarive, Madagascar	
3237	92.66	1	YDM7	Sibolga, Indonesia	
3240	92.59	0.5	OBX4V	R. America, Peru	
3241	92.56	10	YDR3	Ambon, Indonesia	
	92.56	10		Peshawar, Pakistan	
3245	92.45	1	YVKT	R. Libertador, Venezuela	
	92.44	0.5	HI1Z	Broadc. Nac., Dom. Rep.	
3250	92.31	10	HJGO	R. Sutatenza, Colombia	
	92.31	10	YDO	Bandjarmasin, Indonesia	
	92.31	5		R. Clube de Mozambique	
3255	92.15	2	ZFY	R. Demerara, Br. Guiana	
	92.15	0.5	YVQL	La Voz del Tigre, Venez.	
	92.15	0.3		Beira, Mozambique	
	92.15	0.5	ZYR62	R. Clube de Marilia, Brazil	
	92.15	10		Liberian Br. Corp., Liberia	
3259	92.05	0.3	YDV	Kupang, Indonesia	
3260	92.02			Kweichow, China	
3265	91.87	1	YVOC	Ecos del Torbes, Venezuela	
	91.87	4	ZYR92	R. Ribeirão Preto, Brazil	
	91.87	1	ZYK21	R. Tamandaré, Brazil	
3275	91.60	1	YVMC	R. Mara, Venezuela	
	91.60	1	ZYR31	Bauru R. Clube, Brazil	
3277	91.55	1	YDD	Djakarta, Indonesia	
	91.55	0.3	DYB4	Dumaguete City, Philipp.	
3285	91.32	1	HI7T	La Voz Dominic. Dom. Rep.	
	91.32	0.1	ZYR89	R. Aparecida, Brazil	
	91.32	1	YVLE	R. Puerto Cabello, Venez.	
3286	91.26	0.3	YDG	Madiun, Indonesia	
3288	91.24	4		Tananarive, Madagascar	
3290	91.90	0.3	OAX6E	R. Continental, Peru	
3295	91.00	1	YDY	Samarinda, Indonesia	
	91.00	0.7	YVOG	R. Trujillo, Venezuela	
3297	91.00	16	YIH32	Baghdad, Iraq	
3300	90.85	5		Belize, Honduras (Br.)	
	90.91	0.35	OBX4Y	R. Junin, Peru	
	90.91	1		Kinmen, Taiwan	
3301	90.88	7.5	CR7AB	R. Clube de Mozambique	
3305	90.77	1	DZCA	NCDA, Philipp.	
	90.77	3	YVKX	La Voz de la Patria, Venez.	
3310	90.63	0.25	HI2N	Emisora HIN, Dom. Rep.	
3315	90.50	1	YVLI	R. Maracay, Venezuela	
	90.50	8		R. Martinique, Martinique	
3316	90.47	20		Paradys, So. Africa	
	90.46	5		Freetown, Sierra Leone	
3325	90.23	0.6	YVRA	R. Monagas, Venezuela	
	90.23	1	HI1SA	Voz de la Reelecc., Dom. Rep.	
	90.23	1	ZYJ21	R. Borborema, Brazil	
	90.23	0.01		Forest Side, Mauritius	
	90.20	0.1	ZYR220	R. Dif. Hora Certa, Brazil	
3326	90.20	7.5/20		Kaduna, Nigeria	
**3330	90.09	0.75	CHU	Dominion Observat., Canada	
	90.09	0.5	OAX1M	R. Progreso, Peru	
3335	89.95	1/10		R. Marajoara, Brazil	
	89.95	0.5	ZYR59	R. Pres. Prudente, Brazil	
	89.95	1	YVQC	Ecos del Oriñoco, Venezuela	
3339	89.81	0.25		R. Zanzibar, Zanzibar	
3340	89.81	0.5	ZYV30	R. Dif. Brasileira, Brazil	
3345	89.69	1	HI2S	Onda Musical, Dom. Rep.	
	89.69	2	YVKP	R. Tropical, Venezuela	
	89.68	2	DZB2	Call of Orient, Philipp.	
3346	89.60	2.5		Lusaka, Rhodesia	
3350	89.55	0.3	OAX5J	R. Independencia, Peru	
3355	89.45	0.3	YDI20	Sumenep, Indonesia	
	89.45	0.25	HI2P	Emis. HI2S, Dom. Rep.	
	89.45	1	YVLC	R. Valencia, Venezuela	
	89.42	0.25	HCDR4	R. Miramar, Ecuador	
3356	89.42	20		Paradys, So. Africa	
3360	89.29	1	HIF4	R. Santiago, Dom. Rep.	
3365	89.15	0.5	ZYS45	R. Dif. do Paraná, Brazil	
	89.15	5		Grenada, Windward Isl.	
	89.15	1	DZDA	NCDA, Philipp.	
3366	89.12	20		Accra, Ghana	
3375	88.89	0.2	HCMS4	R. Alejo Lascano, Ecuador	
	88.89	1	ZYK78	R. Olinda Pernamb., Brazil	
	88.89	0.6	YVMI	La Voz de la Fé, Venezuela	
	88.89	5	YDW	Pontianak, Indonesia	
3376	88.89	20		Paradys, So. Africa	
3380	88.76	1.5		St. Denis, Reunion	
3385	88.63	0.1	HCJP4	Ondas Manabitas, Ecuador	
	88.63	1	YVQI	Emis. Unidas, Venezuela	
	88.63	0.6	HI2D	R. Hit Musical, Dom. Rep.	
3390	88.50	0.25	OQ2AC	R. College, Congo (Rep.)	
3395	88.37	1	YDP2	Medan, Indonesia	
	88.37	0.4		Paramaribo, Surinam	
	88.37	1	YVOJ	R. Universidad, Venezuela	
3396	88.36	10		Salisbury, Rhodesia	
3406	88.08	5	CR7CA	R. Clube de Mozambique	
3505	85.59	0.22	HCSG4	Voz del Valle, Ecuador	
3510	85.47	0.2	HCNL2	Voz del Campesino, Ecuad.	
3515	85.35	0.2	HCKD5	R. Centro Gualaco, Ecuad.	
3520	85.23	0.2	HCYC4	R. Escuelas Radiales, Ecuad.	
3525	85.11		HCVP2	Quevedo, Ecuador	
3545	84.63		HCOT1	R. Saracay, Ecuador	
3550	84.51		HCVP4	Manta, Ecuador	
3603	80.47	0.75	CR6RK	R. Clube do Sul Angola	
3605	83.21	0.2	HCGE1	Ecos del Occidente, Ecuador	
3620	82.87		HCEF2	R. El Sagrario, Ecuador	
3630	82.64		HCOS4	Voz del Carrizal, Ecuador	
3660	81.97	10	HCGE2	Guayaquil, Ecuador	
3670	81.50		HCFC3	R. Loja, Ecuador	
3680	81.48	0.2	HCGR1	Otavalo, Ecuador	
3725	80.56		HCHW2	R. Rey, Ecuador	
3745	80.11	0.2	HCJR6	Colegio Mera, Ecuador	
3760	79.79		HCBC2	R. San Carlos, Ecuador	
3780	79.35	100		R. Iran, Iran	
3800	78.95	0.1		Tokyo (FEN), Japan	
3900	76.92			Inner Mongolia, China	
3905	76.82	7.5	YDB4	Djakarta, Indonesia	
3910	76.73	4	HLK51	Seoul, Korea	
	76.73	1	HCGB4	Esmeraldas, Ecuador	

kc/s	m	kW	Call	Stations and countries	Rem.
3915	76.64	15/120		Peking, China	
	76.64	5	YDZ2	Ternate, Indonesia	
3925	76.43	10	JOZ	Tokyo, Japan	
3935	76.24	5	YDH2	Semarang, Indonesia	
3940	76.15	2.5	ZBW3	R. Hong Kong	
3945	76.05	0.5	DXB3	Cotabato, Philipp.	
	76.05	10	YDU2	Denpassar, Indonesia	
3950	75.95	0.2	HCPZ1	R. Rumichaca, Ecuador	
3952	75.90	15/100		BBC, Gt. Britain	
	75.90	0.375	CR7RA	R. Pax, Mozambique	
3955	75.80	2.5		Zomba, Rhodesia	
3958	75.78	5/0.5		Stanley, Falkland Isl.	
3960	75.76	5	CR4AA	R. Cl. Cabo Verde	
	75.76	0.75	OAX7O	R. Madre de Dios, Peru	
	75.76	15/120		Peking, China	
	75.76	1	CR4AC	R. Barlavento, Cape Verde I.	
	75.76	10/100		R. Free Europe, Germany	
	75.76	10	YDL	Padang, Indonesia	
	75.76	1	YDT	Soa Siu, Indonesia	
	75.76	0.2	HCII2	Ecos del Agro, Ecuador	
3965	75.67	0.2	HCJH1	R. Turismo, Ecuador	
	75.67	0.5/50	BED67	Taichung, Taiwan	
3970	75.57	5		Osterloog (NDR), Germany	
	75.57	0.1	HCHV4	La Voz del Pueblo, Ecuador	
3975	75.47	15/100		BBC, London, Gt. Britain	
	75.48	10	YDI2	Surabaja, Indonesia	
	75.47	0.2	HCSN6	R. Sira, Ecuador	
3980	75.38	0.5	VRH4	Suva, Fiji Islands	
	75.38	0.2	HCDF4	Voz de Chone, Ecuador	
	75.38	5		Enugu, Nigeria	
	75.38	8/100		Munich (VOA), Germany	
3985	75.28	15/120		Peking, China	
	75.28	0.3		Seoul (VUNC), Korea	
3990	75.19	30/50		R. Liberty, Germany	
	75.19	0.25	HCJA5	R. Atenas, Ecuador	
	75.19	3		Jeddah, Saudi Arabia	
3995	75.09			R. Roma, Italy	
4000	75.00			Bayinnor, China	
	75.00	0.3	HCDX4	R. Iris, Ecuador	
	75.00	0.5	HC5SA	Voz de Tomebamba, Ecuad.	
4009	74.83	1		Frunze, USSR	
4050	74.00			Kazan, USSR	
4068	73.75			Inner Mongolia, China	
4220	71.09			Sinkiang, China	
4235	70.84	15		Ashkhabad, USSR	
4273	70.21			Khabarovsk, USSR	
4310	69.61	1		Chimkent, USSR	
4450	67.40	0.3	HC2HG	R. Central, Ecuador	
4486	66.88			Ufa, USSR	
4500	66.67			Sinkiang, China	
4525	66.25			Silingol, China	
4559	65.80			Guryev, USSR	
4620	64.93	0.5	HSQ	Bangkok, Thailand	
	64.93	120/240		Peking, China	
4635	64.72			Stalinabad, USSR	
	64.72	10	HCGB1	Quito, Ecuador	
	64.72	1		Yuzhno-Sakhalinsk, USSR	
4730	63.54	0.5	HCAS4	Voz de los Caras, Ecuador	
4732	63.45			Hanoi, Vietnam (Dem. Rep.)	
4735	63.35	5	ZYF23	R. Dif. do Maranhao, Brazil	
4750	63.16	3	YDQ	Makassar, Indonesia	
4755	63.09	1	ZYY3	R. Brazil, Brazil	
	63.09	0.15	CR4AB	R. Cl. Mindelo, Cape Verde	
	63.09	0.3	HCLJ6	Voz de Bolivar, Ecuador	
	63.09	2.5	HJGJ	Reina de Colombia, Col.	
	63.09	10		Kabul, Afghanistan	
	63.09	0.5	HRD4	La Voz de las Colinas, Honduras Rep.	
4760	63.03	0.5	YVKV	Emis. Vargas, Venezuela	
	63.03	0.25	HCFA4	Voz de Manabi, Ecuador	
4760	63.03			AIR, Simla, India	
4765	62.95	3	HJEF	R. Dif. Occidente, Col.	
	62.96	0.5	HCAK2	Dif. del Ecuador, Ecuador	
4770	62.89	0.3	OAX2G	R. Cajamarca, Peru	
	62.89	0.25	HCMX4	R. Cenit, Ecuador	
	62.89	1	CR6RG	R. Diamang, Angola	
	62.89	0.3	YVMW	Ondas del Caribe, Venezuela	
	62.89			Sinkiang, China	
	62.89	10		ELWA, Liberia	
	62.89	1	HSQ	Bangkok, Thailand	
4775	62.84	2	ZYH29	R. Dragão do Mar, Brazil	
	62.84	4		R. Gabon, Gabon	
	62.84	5	ZYR81	R. Progresso, Brazil	
	62.83			AIR, Gauhati, India	
	62.83	0.25	CR7XB	Quelimane, Mozambique	
4780	62.76	1	YVLA	Voz de Carabobo, Venez.	
	62.76	7.5	ZHL	R. Singapore, Singapore	
4780	62.76	2	HC1MQ	R. Atahualpa, Ecuador	
	62.76	4		R. Djibouti, Fr. Somaliland	
4782	62.74	1	CR6RY	Novo Redondo, Angola	
4785	62.70	0.5	ZYM8	R. Ribamar, Brazil	
	62.70	10		Dar-Es-Salaam, Tanganyika	
	62.70	4		R. Niger, Niger	
	62.70	1	ZYY20	R. Dif. do Guaporé, Brazil	
4790	62.69	0.5	HCIW5	R. El Mercurio, Ecuador	
	62.63	10	YVQN	Ondas Porteñas, Venezuela	
4795	62.57	1		R. Cultura Cambuquira, Br.	
	62.57	2		R. Tabajaras, Brazil	
	62.57	0.25		R. Zanzibar, Zanzibar	
	62.54	50	XZK2	Rangoon, Burma	
4797	62.54	5		R. Somali, Somaliland (Protec)	
4800	62.50	10	YVME	Ondas del Lago, Venezuela	
4803	62.47	0.3	HCRC3	R. Coro Sta. Cecilia, Ecuad.	
4804	62.45	5		Kisumu, Kenya	
4805	62.43	5	ZYS8	R. Dif. do Amazonas, Brazil	
	62.42	7.5	YDB2	Djakarta, Indonesia	
	62.42	0.25	HCSV5	R. Amazonas, Ecuador	
	62.42	0.4	HJAU	Univ. Antioquia, Colomb.	
4807	62.41	1		Lahore, Pakistan	
	62.41	1	CR5SC	Sao Tomé, Sao Tomé	
4808	62.40	5		Saigon, Vietnam	
4810	62.37	1	YVMG	R. Popular, Venezuela	
	62.37	20		Paradys, So. Africa	
4815	62.31	1	ZYP33	Petropolis R. Dif., Brazil	
	62.31	1	ZYH21	R. Icarema de Fortaleza, Br.	
	62.31	25		Ouagadougou, Upper Volta	
4820	62.24	1	YVRC	Voz de Apure, Venez.	
	62.24	1	CR6RD	Nova Lisboa, Angola	
	62.24	1.5		St. Denis, Reunion	
	62.24	0.2	XEJO	Guadalajara, Mexico	
	62.24			AIR, Bhopal, India	
4825	62.18	0.5	ZYV25	R. Cl. de Varginha, Brazil	
	62.18	0.3	HCET2	R. el Telegrafo, Ecuador	
	62.18	1	HJHC	R. Nariño, Colombia	
	62.18	0.5	ZYE7	Educadora de Parnaiba, Br.	
4826	62.16	15		Lusaka, Rhodesia	
4830	62.11	5	YVOA	Voz del Tachira, Venezuela	
	62.10	1	HSK4	R. Thailand, Thailand	
4834	62.06	10		R. Bukavu, Congo Rep.	
4835	62.05	1	HJKE	R. Continental, Colombia	
	62.05	5		R. Sarawak, Sarawak	
	62.05	0.5	ZYV37	R. Soc. Triangulo, Brazil	
	62.05	1		R. Dif. Roraima, Brazil	
	62.05	4		Bamako, Mali	
4838	62.00	0.4	HSARD	Bangkok, Thailand	
4840	61.98	0.3	YDU	Singaradja, Indonesia	
	61.98	1	YVOI	R. Valera, Venezuela	
	61.98	10	CR7BV	R. Clube de Mozambique	
4843	61.95	3		R. Congo, Congo	
4845	61.92	1	ZYY8	R. Dif. de Teresina, Brazil	
	61.92	0.2	HCRM3	R. Municipal, Ecuador	
	61.92	1	HJGF	R. Bucaramanga, Colombia	
4850	61.86	1	YVMS	R. Universo, Venezuela	
	61.86	0.25	HCCV3	Ond. del Zamora, Ecuador	
	61.86			AIR, Ranchi, India	
4851	61.85	1	CR6RD	Nova Lisboa, Angola	
4852	61.83	0.4		Paramaribo, Surinam	
4855	61.79	4		R. Mauritania, Mauritania	
	61.79	0.25	CP39	R. Cobija, Bolivia	
	61.79	1	HJFN	R. Neiva, Colombia	
	61.79	10	YDK	Palembang, Indonesia	
	61.79	6		Nairobi, Kenya	
	61.79	1	ZYR61	R. Dif. de Taubaté, Brazil	
	61.79	0.25	CR7XD	Nampula, Mozambique	
4859	61.74	7.5		R. Clube de Mozambique	
4860	61.73	0.5	OCX4B	R. Callao, Peru	
	61.73	1	YVPA	R. Yaracuy, Venezuela	
	61.73			R. Kashmir, India	
	61.73	0.25	HI5C	Voz del Progreso, Dom. R.	
4865	61.66	1	CSA97	Ponta Delgada, Azores	
	61.66	1	HJFA	Voz de Pereira, Colombia	
	61.66	2	PRC5	R. Clube do Para, Brazil	
4869	61.60	1	CR6RN	R. Clube de Angola, Angola	
4870	61.60	10		Colombo, Ceylon	
	61.60	0.5	OCX4T	Huancayo, Peru	
4872	61.56	7		R. Leopoldville, Congo Rep.	
4873	61.56			Uralsk, USSR	
4875	61.54	1	ZYZ30	R. Jornal do Brazil, Brazil	
	61.54	4		Cotonou, Dahomey	
	61.54	10	YDG3	Surakarta, Indonesia	
4880	61.48	7.5	YVKF	Ond. Populares, Venezuela	
	61.48	0.75	OCX4E	R. 1160, Peru	
	61.48			AIR, Lucknow, India	
4885	61.41	10		Nairobi, Kenya	

kc/s	m	kW	Call	Stations and countries	Rem.
4885	61.41		HCTF2	R. Vigo, Ecuador	
	61.45	5	ZYV50	R. Cultura de Pocos, Brazil	
	61.41	1		R. Dif. Acreana, Brazil	
4890	61.35	5	YVKB	R. Dif. Venezuela, Venez.	
	61.35	0.25	HI5B	Emis. HI4B/5B, Dom. Rep.	
4893	61.32	4		Dakar, Senegal	
4895	61.29	20		Paradys, So. Africa	
	61.29	0.25		Porto Amelia, Mozambique	
	61.29	8		R. Martinique, Martinique	
	61.29	2.5	ZYB22	R. Baré, Brazil	
	61.29	1	ZYN22	R. Cultura da Bahia, Brazil	
	61.29	10		Rawalpindi, Pakistan	
4900	61.22	10		Colombo, Ceylon	
	61.22	2	YVKP	R. Tropical, Venezuela	
	61.22	1	YVQE	R. Bolivar, Venezuela	
	61.22	0.02	TGLAB	R. Victoria, Guatemala	
	61.22	1	YDS	Gorontalo, Indonesia	
4904	61.18	4		R. Tchad, Tchad	
4905	61.16	5	ZYZ20	R. Relogio Federal, Brazil	
	61.16	0.3	HCIM1	Voz Imbabura, Ecuador	
	61.16	1	HJAG	Emis. Atlantico, Colombia	
	61.16	0.5	HRQN3	Voz del Atlantico, Honduras	
4907	61.13	10		R. Cambodge, Cambodia	
4910	61.10	10/50		Karachi, Pakistan	
	61.10	18		R. Nationale, Guinea (Rep.)	
	61.10	0.3	YDM	Bukittinggi, Indonesia	
	61.10	1	YVMK	R. Cabimas, Venezuela	
	61.10		OAX2H	R. Popular, Peru	
	61.10	0.5	HI9B	Santiago, Dom. Rep.	
	61.10	2	HC1MJ	R. Gran Colombia, Ecuador	
	61.10	0.1	HCAR1	R. Montufar, Ecuador	
4911	61.08	10		Lusaka, Rhodesia	
4915	61.04	5		Accra, Ghana	
	61.04	0.2	HCLR5	Voz de Alausi, Ecuador	
	61.04	1	ZYR60	Cultura de Araraquara, Br.	
	61.04	2		Federal do Amapa, Brazil	
4920	60.98	10	VLM4	Brisbane, Australia	
	60.98	7.5	YVKR	R. Caracas, Venezuela	
	60.98	0.35	HCJX6	R. Cult. Religiosa, Ecuador	
	60.98	0.2	HCMP2	Voz de la Peninsula, Ecuad.	
	60.98	1	YDX	Tdj. Pinang, Indonesia	
	60.98			AIR, Madras, India	
4923	60.93	0.5	HCQRX	R. Quito, Ecuador	
4924	60.92	7.5	CR7BU	R. Clube de Mozambique	
4925	60.90	1	ZYA36	R. Industrial de Juiz, Braz.	
4930	60.85	1	HCCR1	R. Casa de la Cultura, Ecuad.	
	60.85	5		Erevan, USSR	
4934	60.80	10		Nairobi, Kenya	
4935	60.80	1	ZYI21	R. Poti, Brazil	
	60.80	1	HJLF	Ondas de Ibaque, Colombia	
4940	60.73	2	YVMO	R. Occidental, Venezuela	
	60.73			AIR, Gauhati, India	
	60.73			AIR, Delhi, India	
	60.73	10		R. Abidjan, Ivory Coast	
	60.73			Kiev, USSR	
	60.73	1	HRVZ	Voz de Suyapa, H. R.	
4945	60.67	1	HJCW	Emis. Sur. America, Colomb.	
	60.67	10	YDA3	Bandung, Indonesia	
	60.67	1	ZYO22	R. Capixaba, Brazil	
	60.67	20		Paradys, So. Africa	
	60.67	0.25	DZB6	Nat. Teachers Coll., Philipp.	
4950	60.60	1	YVMM	R. Coro, Venezuela	
	60.60	6		Nairobi, Kenya	
	60.60	7.5		R. Sarawak, Sarawak	
4955	60.54	2		R. Cultura de Campos, Br.	
	60.54	25		Dakar, Senegal	
4958	60.51	2		Baku, USSR	
4960	60.48		VUD	AIR, Delhi, India	
	60.48	1	YVQA	R. Sucre, Venezuela	
4965	60.42			Blagoveshchensk, USSR	
	60.42	5		Mombasa, Kenya	
	60.42	10		Colombo, Ceylon	
4967	60.25	10		R. Kuwait, Kuwait	
4970	60.36	10	YVLK	R. Rumbos, Venezuela	
	60.36	1	HI2JP	R. Comercial, Dom. Rep.	
	60.36	0.3	HCGH1	R. Tarqui, Ecuador	
	60.36	0.25		R. Mogadiscio, Somaliland	
4972	60.33	4		R. Yaounde, Cameroon (Fr.)	
	60.30	2.5	ZYY9	R. Timbira, Brazil	
	60.30	1	ZYP27	R. Copacabana, Brazil	
4980	60.25	0.25	OQ2AC	R. College, Congo (Rep.)	
	60.25	1	HI3K	Ondas del Yaque, Dom. Rep.	
	60.25	0.3	HCJC5	Ondas Azuayas, Ecuador	
	60.25			Fukien, China	
4985	60.18	1	YDN2	Kotaradja, Indonesia	
	60.18	0.5	ZYZ5	A Voz de Oeste, Brazil	
	60.18		HJCV	R. Independencia, Colombia	

kc/s	m	kW	Call	Stations and countries	Rem.
4990	60.12	0.04	ZCQ3	Victoria, Seychelles	
	60.12			AIR, Hyderabad, India	
	60.12	15	YVMQ	R. Barquismeto, Venezuela	
	60.12			Hunan, China	
	60.12	5/20		Lagos, Nigeria	
	60.12	20		Khartoum, Sudan	
4995	60.06	3	CR6RZ	R. Angola, Angola	
	60.06	5	ZYX2	R. Brazil Central, Brazil	
	60.06	0.5	HRQW	R. Juventude, Hond. R.	
4996	60.05			Magadan, USSR	
4997	60.04			Ivanovo, USSR	
*5000	60.00	0.5	MSF	Teddington, Gt. Britain	
*	60.00	2	WWVH	Puunene, Hawaii	
*	60.00	8	WWV	Washington, USA	
*	60.00	2	JJY	Tokyo, Japan	
*	60.00	2	LOL	Buenos Aires, Argentina	
*	60.00		HBN	Neuchatel, Switzerland	
*	60.00	4	ZUO	Johannesburg, So. Africa	
5005	59.94	0.5	HCBJ2	R. El Mundo, Ecuador	
	59.94		HCTF2	R. Vigo, Ecuador	
5010	59.88	7.5		FBS, Singapore	
	59.88	1	HI2MS	Emis. HIMS/2MS, Dom. R.	
	59.88	1	OAX5O	R. Pisco, Peru	
	59.88	5		Grenada, Windward Isl.	
	59.88	4		R. Garoua, Cameroon (Fr.)	
	59.88			Kwangsi, China	
5012	59.85	10	HJCA	R. Nacional, Colombia	
5015	59.82			Vladivostok, USSR	
	59.82	0.25	OAX7Z	R. Juliaca, Peru	
	59.82	1	HCRP1	R. Catolica, Ecuador	
5020	59.76	10		Colombo, Ceylon	
	59.76	0.15	OAX5R	Ayacucho, Peru	
	59.76	1	HJFW	Transm. Caldas, Colombia	
	59.76	4		R. Niger, Niger	
	59.76	0.4	4VGS	R. Independence, Haiti	
	59.76		YVNK	R. Cronos, Venezuela	
5024	59.71	1	CR6RH	Sa da Bandeira, Angola	
5025	59.70	1		R. Dif. de Aquidauana, Br.	
	59.70		OAX7Q	R. Quillabamba, Peru	
	59.70	0.25	HCOB5	Ondas Azules, Ecuador	
5026	59.70	7.5		Kampala, Uganda	
5030	59.64	1	HI3C	Voz del Papagayo, Dom. R.	
	59.64	10	YVKM	R. Continente, Venezuela	
	59.64	15/120		Peking, China	
	59.64	7.5	YDP	Medan, Indonesia	
	59.64	0.5	HCPS5	Ondas Cañaris, Ecuador	
5033	59.59	1	CR6AA	Lobito, Angola	
5035	59.57	1	ZYW22	R. Anhanguera, Brazil	
	59.57		HCCU5	La Voz de Azogues, Ecuad.	
5040	59.52	0.2	HCER1	Escuelas Radiales, Ecuador	
	59.52	0.225	4VPM	Port-de-Paix, Haiti	
	59.52	2		Tbilisi, USSR	
	59.52	1	YVMA	Ecos del Zulia, Venezuela	
5042	59.48	1	CR6RF	R. Cl. de Benguela, Angola	
5045	59.46	10	ZYP23	R. Rio de Janeiro, Brazil	
	59.46	0.3		Beira, Mozambique	
	59.46	0.25	HCED5	R. Roxi, Ecuador	
5047	59.43	7.5	YOJ	Jogjakarta, Indonesia	
	59.43	4		Lomé, Togo	
5050	59.41	20		Dar-es-Salaam, Tanganyika	
	59.41	5	YVKD	R. Cultura, Venezuela	
	59.41	0.3	HCRS1	Ibarra, Ecuador	
	59.41	50		Petropavlovsk, USSR	
	59.41	1	HJDW	Voz de Medellin, Colombia	
	59.41	0.35	ZK1ZA	Rarotonga, Cook Isl.	
5055	59.36	0.5	HI2L	Voz del Tropico, Dom. Rep.	
	59.36	2	ZYO23	R. Vitoria, Brazil	
	59.36	1	CR6RW	Cabinda, Angola	
5056	59.35	1		Addis Ababa, Ethiopia	
				5060–5950 kc/s	
5060	59.29	0.4	4VRM	Voix des Gonaives, Haiti	
	59.29	0.25	HCMV5	R. Popular, Ecuador	
5065	59.23			Petrozavodsk, USSR	
5075	59.13	50	HJGC	R. Sutatenza, Colombia	
5100	58.82	0.25		Nampula, Mozambique	
5115	58.65	50		Petropavlovsk, USSR	
	58.65			Vladivostok, USSR	
5125	58.54	15/120		Peking, China	
5137	58.00	1	CR6RV	R. Clube Moxico, Angola	
5220	57.47	15/120		Peking, China	
5225	57.42			Novosibirsk, USSR	
5230	57.36			Nicolayevsk, USSR	
5260	57.03	5		Alma Ata, USSR	
5270	56.93			Bangkok, Thailand	
5290	56.71			Krasnoyarsk, USSR	
5302	56.60			Ivanovo, USSR	
5705	52.60	20		Damascus, Syria	

kc/s	m	kW	Call	Stations and countries	Rem.
5740	52.26	5		Erevan, USSR	
	52.26	0.3	4VCB	La Voix du Sud, Haiti	
5750	52.18	0.5	CE8AA	Soc. Nac. de Agricult., Chile	
5782	51.84	3	HC1FA	R. Metropolitana, Ecuador	
5810	51.63	0.25	YNRC	R. Cultural, Nicaragua	
5835	51.	4		Tananarive, Madagascar	
5850	51.27	0.5	HSQ	Bangkok, Thailand	
5860	51.20	15/120		Peking, China	
	51.20			R. Nacional, Bolivia	
5873	51.05	2	HRN	Voz de Honduras, H. R.	
5880	51.02	15/120		Peking, China	
5900	50.84	1	ZNB	Mafeking, Bechuanaland	
5915	50.72	15/120		Peking, China	
5935	50.54	100		Praha, Czechoslovakia	
	50.54	120/240		Peking, China	
5940	50.51			Khabarovsk, USSR	
		5950–6200 kc/s – 49 meter Band			
5950	50.42	3.5	BEC26	Taipei, Taiwan	
	50.42	120/240		Peking, China	
	50.42	2	HRN	La Voz de Honduras, Hon.	
5952	50.40	5	TGNA	R. Cultural, Guatemala	
5954	50.39	1	TIQ	R. Casino, Costa Rica	
5955	50.38	10/100		Allouis, France	
	50.38	0.25	OAX4P	R. Huancayo, Peru	
	50.38			AIR, Delhi, India	
	50.38	10	ZYR226	R. Gazeta, Brazil	
5956	50.37	10		R. Elisabethville, Congo Rep.	
5960	50.34	100	CSA206	R. Nacional, Portugal	
	50.34	0.35	HCTR1	R. Equinoccial, Ecuador	
	50.34	50		Ulan Bator, Mongolia	
	50.34	1	OAX7L	La Voz del Altiplano, Peru	
	50.34	5	VQO2	Honiara, Solomon Isl.	
	50.34	50/60/100		R. Roma, Italy	
	50.34	10/100		R. Free Europe, Germany	
	50.34	1	BEP23	Taipei, Taiwan	
	50.34	0.6	HOL21	R. Hogar, Panama	
	50.34	1	HJCF	Voz de Bogota, Colombia	
	50.34	120/240		Peking, China	
	50.34	5/7.5		R. Athens, Greece	
5965	50.28	50	WDSI	Brentwood, USA	
	50.28	0.3	HCGE5	R. Mundial, Ecuador	
	50.28	50/200	KCBR	Delano, USA	
	50.28	0.5	YNWW	R. Sport, Nicaragua	
	50.28	7.5	ZYU60	R. Guaiba, Brazil	
5970	50.25	50	CKNA	R. Canada, Canada	
	50.25	7.5		Dacca, Pakistan	
	50.25	0.3	CBNX	St. John's, Canada	
	50.25	7.5	HI4T	La Voz Dominicana, Dom.R.	
	50.25	10/100		R. Free Europe, Germany	
	50.25	1	YDO2	Bandjarmasin, Indonesia	
	50.25	1.5		R. Brazzaville, Congo	
	50.25	0.5	TGLA	R. Victoria, Guatemala	
	50.25	0.3	HCMH6	R. Cotopaxi, Ecuador	
	50.25	0.2	HCJT1	R. Tulcan, Ecuador	
	50.25	1.5	BEC35	Tsoying, Taiwan	
5972	50.22	25		R. Andorra, Andorra	
	50.22	1	HRWW	La Voz de C. America, Hon.	
5975	50.21	15/100		BBC, London, Gt. Britain	
	50.21	10	ZYJ7	R. Guaruja, Brazil	
5976	50.20	100	CSA78	R. Nacional, Portugal	
5979	50.18			Yakutsk, USSR	
5980	50.17	5	OBX4M	R. Panamericana, Peru	
	50.17	10/100		Allouis, France	
	50.17	0.25	VRH5	Suva, Fiji	
	50.17	5	VQA52	Jesselton, Borneo	
	50.17	1	TGAR	R. Quetzal, Guatemala	
	50.17	7.5		Dacca, Pakistan	
	50.17	10/50		Karachi, Pakistan	
	50.17	0.5/50	BED30	Taipei (BCC), Taiwan	
	50.17	20/100	DMQ5	Deutsche Welle, Germany	
	50.17	10	HLK2	Seoul, Korea	
	50.17	100		Bucharest, Rumania	
5981	50.16	2	ZFY	R. Demerara, Br. Guiana	
5982	50.17	4		R. Bangui, C. African Rep.	
5985	50.13	10	LRS2	R. Splendid, Argentina	
	50.13	10/100		R. Free Europe, Germany	
	50.13	25		Sanaah, Yemen	
	50.13	3	ZPA1	R. Nacional, Paraguay	
	50.13	7.5	4VB	R. Commerce, Haiti	
	50.13	0.3	HCAH3	R. Trebol, Ecuador	
	50.13		HJGW	R. Independencia, Colombia	
	50.13	1	YSW	R. Santa Ana, El Salvador	
	50.13	120/240		Peking, China	
	50.13	50		R. Tunis, Tunisia	
5990	50.08	15/100		BBC, London, Gt. Britain	
	50.08	10/100		R. Free Europe, Germany	
	50.08	50/200	KNBH	Dixon, USA	

kc/s	m	kW	Call	Stations and countries	Rem.
5990	50.08	0.2	HCGY6	R. Luz, Ecuador	
	50.08	1	YDS2	Menado, Indonesia	
	50.08	10/50		Karachi, Pakistan	
	50.08	3	TGJA	R. Nuevo Mundo, Guatem.	
	50.08		OAX1W	R. Nac. Tumbes, Peru	
	50.08	120/240		Peking, China	
	50.08	100		Bucharest, Rumania	
5993	50.05	10		R. Coquilhatville, Congo Rep.	
5994	50.05	1		R. Martinique, Martinique	
5995	50.04	1	YNDG	R. Colonial, Nicaragua	
	50.04	1	HRP1	El Eco de Honduras, Hon. R.	
	50.04	1	BEC36	Taipei, Taiwan	
6000	50.00	0.3	OEI20	Aldrans, Austria	
	50.00	20	ORU5	Wavre, Belgium	
	50.00	50		R. Nacional, Spain	
	50.00	1	DZH4	Voice of the Philippines	
	50.00	5	CXA2	R. Sur, Uruguay	
	50.00	3	TGTA	R. Sonora, Guatemala	
	50.00	5	PRK5	R. Inconfidencia, Brazil	
	50.00	20	TAN	Ankara, Turkey	
	50.00	4		R. Djibouti, Fr. Somaliland	
	50.00	120/240		Peking, China	
	50.00	50		Kabul, Afghanistan	
	50.00	0.25	HCDX1	La Voz del Norte, Ecuador	
	50.00	2.5	4VEC	La Voix Evangelique, Haiti	
	50.00	7.5		R. Swan, Swan Isl.	
6003	49.97	0.5		Tripolis, Greece	
6004	49.96	7.5		Colombo, Ceylon	
	49.96	5		Kathmandu, Nepal	
6005	49.96	20		Berlin, RIAS, Germany	
	49.96		4VEB	R. Caraibes, Haiti	
	49.96	0.25	VRH6	Suva, Fiji	
	49.96	0.3	HRQR4	La Voz del Pueblo, Hond.	
	49.96	3.5		R. Zanzibar, Zanzibar	
	49.96	7.5/100		Warsaw, Poland	
6006	49.95	1	TIHBG	R. Reloj, Costa Rica	
6010	49.92	1	CJCX	Sydney, Canada	
	49.92			AIR, Calcutta, India	
	49.92	1	CE601	Emisoras Norte, Chile	
	49.92	5	YSS	R. Nacional, El Salvador	
	49.92	15/100		BBC, London, Gt. Britain	
	49.92	50/60/100		R. Roma, Italy	
	49.92	2.5	XEOI	Radio Mil, Mexico	
	49.92	0.5	OAX4V	R. America, Peru	
	49.92	10	HJFK	La Voz Amiga, Colombia	
6015	49.88	10/100		R. Free Europe, Germany	
	49.88	5	PRA8	R. Cl. de Pernambuco, Brazil	
	49.88	5		VUNC, Japan	
	49.88	0.5	HCIB4	R. Manta, Ecuador	
6018	49.84	10		Salisbury, Rhodesia	
6020	49.83	10	HJCX	Voz de Colombia, Colombia	
	49.83	40		Kiev, USSR	
	49.83	10/100		R. Free Europe, Germany	
	49.83	0.25	XEUW	El Eco de Sotavento, Mexico	
	49.83	1	OAX4Q	R. Victoria, Peru	
	49.83	1	TGDA	La Voz de Occidente, Guat.	
	49.83	50		Komsomolsk, USSR	
	49.83			Khabarovsk, USSR	
	49.83	2	CE602	Diego Portales, Chile	
	49.83	10		R. Nederland, Holland	
	49.83	0.36	HCNF5	R. Dif. del Ecuador	
	49.83	7.5		Amman, Jordan	
	49.83	1	HROW2	R. Monserrat, Honduras	
6025	49.79	7.5	ZYR63	R. Em. de Piratininga, Braz.	
	49.79	0.2	HCTO5	R. Patria, Ecuador	
	49.79	10		R. Atlantico, Portugal	
	49.79	1	ZPA10	R. Paraguay, Paraguay	
	49.79	3.5	YNX	R. Equis, Nicaragua	
	49.79	0.1	HI1J	Voz de Oriente, Dom. Rep.	
	49.79	50/100		R. Nederland, Holland	
	49.79	5		Kuala Lumpur, Malaya	
	49.79	10	CR6RZ	R. Angola, Angola	
	49.79	120/240		Peking, China	
6028	49.77		OAX8B	R. Nac. Iquitos, Peru	
6029	49.76	0.3	HCPT5	La Voz del P. Socorro, Ecu.	
6030	49.75	0.1	CFVP	Calgary, Canada	
	49.75	20		Mühlacker (SDR), Germany	
	49.75	0.5	XEKW	R. Continente, Mexico	
	49.75	0.25	HP5B	R. Cadena Miramar, Pan.	
	49.75	2	DZH6	"The Call of Orient", Philip.	
	49.75	5	TGTQ	R. Internacional, Guatemala	
	49.75	0.2	HCRQ2	Voz del Tropico, Ecuador	
	49.25	100	YIH62	Baghdad, Iraq	
6035	49.71	25	3AM3	Monte Carlo, Monaco	
	49.71	0.5	HCNX3	R. Cariamanga, Ecuador	
	49.71		HCTF2	R. Vigo, Ecuador	

kc/s	m	kW	Call	Stations and countries	Rem.
6035	49.71	2/3		Seoul, Korea	
	49.71	4		Noumea, New Caledonia	
	49.71	15/100		BBC, London, Gt. Britain	
	49.71	7.5	ZYZ26	R. Globo, Brazil	
	49.71	0.15	OAX6B	R. Landa, Peru	
	49.71	1	CXA30	R. Nacional, Uruguay	
	49.71	120/240		Peking, China	
	49.71	50	XZK3	Rangoon, Burma	
	49.71	10/50		Karachi, Pakistan	
	49.71	1.5	HRTL2	R. Tegucigalpa, Hond. R.	
6037	49.69	1	TIFC	Faro del Caribe, Costa Rica	
6040	49.67	15/100		BBC, London, Gt. Britain	
	49.67	35		Thessaloniki (VOA), Greece	
	49.67			AIR, Simla, India	
	49.67	35		Courier (VOA), Greece	
	49.67	20/100		AIR, Delhi, India	
	49.67	0.5/50	BED9	Taipei (BCC), Taiwan	
	49.67	0.5	YNLUA	Radio City, Nicaragua	
	49.67	0.5	TGCO	Voz del Tropico, Guatemala	
	49.67	10	HJLB	La Voz del Tolima, Colomb.	
	49.67	50/200	KNBH	Dixon, USA	
6042	49.65	0.25	OAX6A	R. Arequipa, Peru	
6045	49.63	0.5	XETW	La Voz de Tampico, Mexico	
	49.63	50	WDSI	Brentwood, USA	
	49.63	100	YDF	Djakarta, Indonesia	
	49.63	1	HOU31	Voz del Baru, Panama	
	49.63	10/100		Allouis, France	
	49.63	7.5	ZYS33	R. Clube Paranaense, Brazil	
	49.63	5	CE604	R. Libertad, Chile	
	49.63	10	CXA61	El Espectador, Uruguay	
6050	49.59	0.5	HRLP3	R. America, Honduras Rep.	
	49.59	2		Tbilisi, USSR	
	49.59	15/100		BBC, London, Gt. Britain	
	49.59	0.1	VSZ10	Tarawa, Gilbert Isl.	
	49.59	25	HCJB	Voz de los Andes, Ecuador	
	49.59	0.8	TGXB	R. Centro Musical, Guatem.	
6054	49.55	5	HJEX	R. Pacifico, Colombia	
6055	49.55	7.5	PRB21	R. Panamericana, Brazil	
	49.55			Petrozavodsk, USSR	
	49.55	10	JOZ2	Tokyo, Japan	
	49.55	0.25	DYH4	Dumaguete City, Philipp.	
	49.55	20/50		R. Liberty, Germany	
	49.55	100		Praha, Czechoslovakia	
6057	49.53	0.25	OAX2A	R. Trujillo, Peru	
6060	49.50	0.3	HRYN4	Voz del Merendon, Hond. R.	
	49.50	0.5	HI8Z	R. Santiago, Dom. Rep.	
	49.50	15/100		BBC, London, Gt. Britain	
	49.50	50	CKRZ	R. Canada, Canada	
	49.50			Caltanissetta, Italy	
	49.50	1.5	TGXX	R. Ciros, Guatemala	
	49.50	1	TGRLA	R. Landivar, Guatemala	
	49.50	50/60/100		R. Roma, Italy	
	49.50	0.75	HCAC1	Voz de Democracia, Ecuad.	
	49.50	16	LRA31	R. Nacional, Argentina	
6062	49.48	2		Bangkok, Thailand	
	49.48		OAX8L	R. Teselar, Peru	
6065	49.46	0.45	YNEQ	R. Universal, Nicaragua	
	49.46			AIR, Bombay, India	
	49.46	0.35	HCEM1	Ondas Carchenses, Ecuador	
	49.46	100		Hörby, Sweden	
	49.46	15/240		Peking, China	
	49.46	7.5	ZYZ31	R. Rural Brasileira, Brazil	
	49.46	5	XEXG	R. Mexicana del Centro, Mex.	
6070	49.42	1	CFRX	Toronto, Canada	
	49.42	15/100		BBC, London, Gt. Britain	
	49.42	50		Petropavlovsk, USSR	
	49.42	120		R. Sofia, Bulgaria	
	49.42	0.25	CP18	R. El Condor, Oruro, Boliv.	
	49.42	1	HSK5	R. Thailand, Thailand	
	49.42	10/50		Karachi, Pakistan	
	49.42	0.3	OAX4S	Onda Popular, Peru	
	49.42	3	CE607	R. Soc. Nac. de Mineria, Chi.	
	49.42	0.25	TGPA	R. Palmeras, Guatemala	
6075	49.38	1	TIGG	R. Excelsior, Costa Rica	
	49.38	5		Biak, Neth. New Guinea	
	49.38	10	HJGT	R. Sutatenza, Colombia	
	49.38	20		Osterloog (NDR), Germany	
	49.38	2.5	CXA3	R. Ariel, Uruguay	
	49.38	7.5		Colombo, Ceylon	
	49.38	5/7.5		R. Athens, Greece	
	49.38			Erevan, USSR	
	49.38	7.5/100		Warsaw, Poland	
	49.38	0.5	HRMH5	La Voz del Junco, Hond. R.	
6080	49.34	15/100		BBC, London, Gt. Britain	
	49.34	10		R. Goa, Goa	
	49.34	20/100	JOB6	R. Japan	
	49.34	0.25	DZI7	Voice of Manila, Philipp.	

k/cs	m	kW	Call	Stations and countries	Rem.
6080	49.34	20		Elisabethville, Congo (Rep.)	
	49.34	0.01	CKFX	Vancouver, Canada	
	49.34	5	XEQ	R. Mexicana del C., Mexico	
	49.34	7.5	ZL7	Wellington, New Zealand	
	49.34			Nauen, Germany (DDR)	
	49.34	10	CSB51	R. Cl. Portuguese, Portugal	
	49.34	0.25	TGCB	R. Colonial, Guatemala	
	49.34	10	HCDG2	R. Bolivar, Ecuador	
6082	49.32	40	OAX4Z	R. Nacional, Lima, Peru	
6085	49.30	120/240		Peking, China	
	49.30	10		München (BR), Germany	
	49.30			Tallinn, USSR	
	49.30	1	HRNQ4	R. Morazan, Hond. Rep.	
	49.30		VUD	AIR, Delhi, India	
	49.30	50/100		R. Nederland, Holland	
	49.30	10		R. Stanleyville, Congo Rep.	
6090	49.26	2	VLI6	Sydney, Australia	
	49.26	0.2	HCVM6	R. Once de Noviembre, Ecu.	
	49.26	0.2		Dalat, Vietnam (Rep.)	
	49.26	15/100		BBC, London, Gt. Britain	
	49.26	0.25	4VO	R. Lumiere, Haiti	
	49.26	50		R. Luxembourg	
	49.26	10		R. Cambodge, Cambodia	
	49.26	40	LRY1	R. Belgrano, Argentina	
	49.26	1	XECMT	R. Mante, Mexico	
6095	49.22	1	OAX4H	R. Mundial, Peru	
	49.22	100		Hörby, Sweden	
	49.22	1	YSC	Ondas Populares, El Salvad.	
	49.22	10/100		R. Free Europe, Germany	
	49.22	25	ZYB7	R. Dif. de Sao Paulo, Br.	
	49.22	0.5/50	BED29	Chiayi (BCC), Taiwan	
6100	49.18	0.25	CE610	R. Calama, Chile	
	49.18	15/120		Peking, China	
	49.18	10/100		R. Belgrade, Yugoslavia	
	49.18	0.25	DYH3	R. Cebu, Philipp.	
	49.18	1	TGOA	La Voz de las Americas, Gu.	
	49.18	8/100		Munich (VOA), Germany	
	49.18	0.54		La Voix de la Vie Marie, Haiti	
6101	49.17	0.01		Forest Side, Mauritius	
6105	49.14	1	CR6RR	R. Diamang, Angola	
	49.14	0.75	HCVC3	R. Centinela del Sur, Ecuad.	
	49.14	50		Tunis, Tunisia	
	49.14	1	HJDM	R. Vision, Colombia	
	49.14	0.25	XEQM	Merida, Mexico	
	49.14	5	ZYN6	Ceará R. Clube, Brazil	
	49.14	10/100		R. Free Europe, Germany	
	49.14		OAX6F	R. Nac. Tacna, Peru	
6106	49.14	2.5	BEC61	Taipei, Taiwan	
6110	49.10			Radio Kashmir, India	
	49.10	15/100		BBC, London, Gt. Britain	
	49.10	7.5/100		BBC, Singapore, Malaya	
	49.10	7.5	DZI4	Manila, Philipp.	
	49.10	0.5	TGQA	R. Nacional, Guatemala	
	49.10	1	HRXW2	R. Comayagüela, Hond. R.	
	49.10	0.5	CE611	Soc. Nac. de Agricult., Chile	
6112	49.08	0.25		Nairobi (FBS), Kenya	
	49.08	1		Ankara, Police Radio, Turk.	
	49.08	1	HI1Z	Broadcasting Nac., Dom. R.	
6115	49.06	1	HJNE	R. El Sol, Colombia	
	49.06	100	ZYC7	R. Tupi, Brazil	
	49.06	0.3	HCXO1	R. Otavalo, Ecuador	
	49.06	2	CXA73	R. Clarin, Uruguay	
	49.06	1		R. Douala, Cameroon (Fr.)	
	49.06	1	OBX4Z	R. Luz, Peru	
	49.06	20		Deutschl.sender, Ger. (DDR)	
	49.06	20		Khabarovsk, USSR	
6116	49.05	20		Saigon, Vietnam	
6120	49.02	10	LRX1	El Mundo, Argentina	
	49.02	0.5		La Voix Evangelique, Haiti	
	49.02	50/200	KCBR	Delano, USA	
	49.02	15	OIX7	Pori, Finland	
	49.02	7.5/20		BBC, Cyprus	
	49.02	5	YDI4	Surabaja, Indonesia	
	49.02	120/240		Peking, China	
	49.02		HCRL2	R. Quinta Piedad, Ecuador	
	49.02		HCTF2	R. Vigo, Ecuador	
6125	48.98	10	CXA4	S.O.D.R.E., Uruguay	
	48.98	1	HRQ4	R. Suyapa, Honduras R.	
	48.98	15/100		BBC, London, Gt. Britain	
	48.98	0.35	CP15	El. Condor, La Paz, Bol.	
	48.98	10/100		R. Free Europe, Germany	
	48.98	35/100		N. Luzon (VOA), Philipp.	
	48.98	120/240		Peking, China	
	48.98	10		R. Luluabourg, Congo Rep.	
6130	48.94	0.25	HI1G	Radiodif. HIG, Dom. Rep.	
	48.94	1	CE613	R. El Morro, Chile	
	48.94	2	VLT6	Port Moresby, New Guinea	

kc/s	m	kW	Call	Stations and countries	Rem.
6130	48.94	0.5	HCFB2	R. Condor, Eucador	
	48.94	0.1	XERCM	R. Central de Mexico, Mex.	
	48.94	10/100	LKJ	R. Norway, Norway	
	48.94	10/100		R. Free Europe, Germany	
	48.94	1		R. Lao, Laos	
	48.94	100		R. Nacional, Spain	
	48.94	0.5	CHNX	Halifax, Canada	
	48.94			AIR, Gauhati, India	
6135	48.90	0.25	HRME2	La Voz del Patio, Hond. R.	
	48.90	1	CR6RU	Carmona, Angola	
	48.90	1	HJEV	La Voz del Valle, Col.	
	48.90		OCX4M	R. Pasco, Peru	
	48.90	4		Papéete, Tahiti	
	48.90	7.5	ZHP	R. Malaya, Malaya	
	48.90	120/240		Peking, China	
	48.90	0.5	CP30	R. Grigota, Bolivia	
	48.90	7.5	PRC21	R. Soc. Gaucha, Brazil	
	48.90			Kaunas, USSR	
	48.90			Ulan Ude, USSR	
	48.90	1		Athens (FBS), Greece	
	48.90	0.25	HCFK5	R. Cuenca, Ecuador	
6140	48.86	15/100		BBC, London, Gt. Britain	
	48.86	100	ORU3	Wavre, Belgium	
	48.86	0.25	OAX9B	Chachapoyas, Peru	
	48.86	2		R. Tripoli, Libya	
	48.86	1	YNWA	R. Mundial, Nicaragua	
	48.86	2	VLW6	Perth, Australia	
	48.86	0.25	DYH2	Voice of Cebu, Philipp.	
	48.86	8/100		München (VOA), Germany	
	48.86	0.5	TGHC	R. Universal, Guatemala	
	48.86	10	CXA20	R. Monte Carlo, Uruguay	
	48.86	1	HCOV5	Ondas del Volante, Ecuador	
6145	48.82	10/100		Allouis, France	
	48.82	5		Enugu, Nigeria	
	48.82	0.3	HRXN4	R. Concordia, Hond. R.	
	48.82	120/240		Peking, China	
	48.82	50/200	KNBH	Dixon, USA	
	48.82	35/100		Okinawa (VOA), Ryukyu Isl.	
	48.82	1	HJEQ	La Voz de Cauca, Colombia	
	48.82	8/100		Munich (VOA), Germany	
6147	48.80	50	PRL9	R. Nacional, Rio de Jan., Br.	
6150	48.78	5	VLR6	Melbourne, Australia	
	48.78	15/100		BBC, London, Gt. Britain	
	48.78	10	CE615	R. Coop. Vitalicia, Chile	
	48.78	10/100		R. Belgrade, Yugoslavia	
	48.78	0.25	CP12	R. Loyola, Bolivia	
	48.78	0.5	TGAZ	R. Continental, Guatemala	
	48.78	1	TIGPH	R. Monumental, Costa Rica	
	48.78	0.35	HCDC2	R. Cenit, Ecuador	
	48.78	0.3	YSP	La Voz de Cuscatlan, El. Sal.	
6153	48.75	5	OBX4G	R. Excelsior, Peru	
6154	48.74	3	CSB52	R. Renascenca, Portugal	
6155	48.74	0.3/50	OEI21	Wien, Austria	
	48.74	10	CXA13	R. Carve, Uruguay	
	48.74	0.15	4VWA	R. Citadelle, Haiti	
	48.74	120/240		Peking, China	
	48.74	35		Thessaloniki (VOA), Greece	
	48.74	7.5		R. Täbriz, Iran	
	48.74	0.3	HCST4	R. Costa Azul, Ecuador	
	48.74	2	HRUC	R. Centro, Honduras	
6160	48.70	1	CP40	Emisora LAB, Bolivia	
	48.70	0.2	HI1R	Voz de Fundacion, Dom. R.	
	48.70	1	OCX4G	R. Mundo, Peru	
	48.70	5	HJKJ	Nueva Granada, Colombia	
	48.70	50		Algier 3, Algeria	
	48.70	10/1		Tokyo (FEN), Japan	
	48.70	0.3	CBUX	Vancouver, Canada	
	48.70	0.25	TGZA	R. Club, Guatemala	
	48.70	10/100		R. Free Europe, Germany	
	48.70	1	HCSJ1	R. Javier, Ecuador	
6165	48.66	5	3WT13	Saigon, Vietnam	
	48.66	10	XEWW	Mexico City, Mexico	
	48.66	100	HER3	Schwarzenburg, Switzerland	
	48.66	15/100		BBC, London, Gt. Britain	
	48.66	7.5	ZYR58	R. Cultura, Brazil	
	48.66	20		Damascus, Syria	
6170	48.62	0.25		Nyeri, Kenya	
	48.62			AIR, Lucknow, India	
	48.62	1		Cayenne, Fr. Guiana	
	48.62	3		Jeddah, Saudi Arabia	
	48.62	15/100		BBC, London, Gt. Britain	
	48.62	1	CXA21	R. Fenix, Uruguay	
	48.62	0.25	YSHQ	R. Progreso, El Salvador	
	48.62	10	YDL3	Padang, Indonesia	
	48.62	7.5/20		BBC, Cyprus	
	48.62	0.2	HCPJ2	R. Fluminense, Ecuador	
6175	48.58	7.5/100		BBC, Singapore, Malaya	
6175	48.58	50	WDSI	Brentwood, USA	
	48.58	20		Kaduna, Nigeria	
	48.58	0.3	HP5G	R. Panamericana, Panama	
	48.58	20/50		R. Liberty, Germany	
	48.58	0.3	OAX7C	R. Tahuantinsuyo, Peru	
	48.58	0.1	XEXA	R. Gobernacion, Mexico	
	48.58	15/100		BBC, London, Gt. Britain	
	48.58	10/100		Allouis, France	
	48.58	1	HRTW4	Un. R. Hondureña, Hond. R	
	48.58	5/7.5		R. Athens, Greece	
	48.58	2		Malaga (RNE), Spain	
6176	48.58			Shensi, China	
6178	48.55	1	4VES	La Voix de St. Marc, Haiti	
6180	48.54	1	TGWB	R. Nacional, Guatemala	
	48.54	15/100		BBC, London, Gt. Britain	
	48.54	10	LRA34	R. Nac. Mendoza, Argentina	
	48.54	0.5/50	BED31	Taipei (BCC), Taiwan	
	48.54	120/240		R. Peking, China	
	48.54	0.3	HCRT6	R. Paz y Bien, Ecuador	
6185	48.50	10		Addis Ababa, Ethiopia	
	48.50	50/200	KCBR	Delano, USA	
	48.50	10	ZYR77	R. Bandeirantes, Brazil	
	48.50	10	HJCT	R. Televisora Nacional, Col.	
	48.50	10/100	LLI	R. Norway, Norway	
	48.50	0.5	HRMT4	R. Molino Rojo, Honduras	
	48.50		HCXX2	La Voz de Vinces, Ecuador	
	48.50	0.45	CP9	R. Amauta, Bolivia	
	48.50	20/50		R. Liberty, Germany	
	48.50	10/100		R. Free Europe, Germany	
	48.50	8/100		Munich (VOA), Germany	
6190	48.47	5/25/50/100		Vatican City, Vatican State	
	48.47	8/100		Munich (VOA), Germany	
	48.47	0.1	HI9U	Broadc. Tropical, Dom. Rep.	
	48.47	0.5	OAX4G	R. Lima, Peru	
	48.47	0.25	YNUW	R. Dario, Nicaragua	
	48.47	5	CE619	R. Corporacion, Chile	
	48.47	1	4XB44	Tel Aviv, Israel	
	48.47	100		Bucharest, Rumania	
	48.47	1	YSUA	R. Mil. Cincuenta, El Salv.	
	48.47		TGRT	R. Nacional Tikal, Guatem.	
	48.47		VUD	AIR, Delhi, India	
	48.47	50		Sebaa-Aioun, Morocco	
6195	48.43	15/100		BBC, London, Gt. Britain	
	48.43	10		Usumbura, Ruanda-Urundi	
	48.43	7.5/100		Warsaw, Poland	
	48.43	1	HJEZ	Voz de Cali, Colombia	
	48.43	0.5	HRD2	Voz de Atlantida, Hond. R.	
	48.43	1	HCEH6	R. Cosmopolida, Ecuador	
	48.43			Pyongyang, Korea	
	48.43	7.5	PRD21	Emis. Continental, Brazil	
	48.43	0.5	CP23	R. Guadalquirie, Bolivia	
6198	48.40	0.3	OAX1B	R. Piura, Peru	
6200	48.39	1	YNJM	R. Norte, Nicaragua	
	48.39	0.1	TGKN	R. Latina, Guatemala	
	48.39	1.2	4VHW	R. Haiti, Haiti	
	48.39	10	HRNQ	R. Morazan, Honduras	
	48.39	120/240		Peking, China	
	48.39			Chinghai, China	
				6210-7100 kc/s	
6212	48.29	15/120		Peking, China	
6210	48.31	20	HI2U	R. Caribe, Dom. Rep.	
6215	48.27	50/100		Cairo, Un. Arab. Rep.	
6220	48.23	0.3	4VCP	La Voix du Nord, Haiti	
6225	48.19	15/120		Peking, China	
6230	48.10	0.15		R. Libertad, Bolivia	
6236	48.08	100		Budapest, Hungary	
6240	48.07	0.1		Mytilini, Greece	
6250	48.00			Pyongyang, Korea	
	48.00	50/100		Cairo, Un. Arab. Republic	
6280	47.77			Sinkiang, China	
6299	47.62	0.5		Istanbul, Turkey	
6300	47.62	2	OBX4P	R. Miraflores, Peru	
6305	47.58	1		Andorradio, Andora	
6330	47.39			R. Universidad, Peru	
6353	47.22	15		Ashkhabad, USSR	
6360	47.17	100	CSA38	R. Nacional, Portugal	
6374	47.09	100	CSA21	R. Nacional, Portugal	
6435	46.62	1	COCW	R. Rebelde, Cuba	
6449	46.51	1		Ankara Tec. School, Turkey	
6500	46.16			Chinghai, China	
6525	45.98	0.3		Carpenission, Greece	
6590	45.52	0.1		Chios, Greece	
6595	45.48	15/120		Peking, China	
6600	45.45	0.4	TAZ	R. Izmir, Turkey	
6670	45.00			R. Calatrava, Sp. Guinea	
6690	44.80	0.2		Technical School, Turkey	
6700	44.74	0.4		R. Sanandaj, Iran	

kc/s	m	kW	Call	Stations and countries	Rem.
6700	44.74	0.25	OAX1A	R. Delcar, Peru	
6730	44.58	15		Tashkent, USSR	
6752	44.43	0.5		Larissa, Greece	
6790	44.18	15/120		Peking, China	
6810	44.05	15/120		Peking, China	
6820	43.99			Minsk, USSR	
6825	43.96	15		Tashkent, USSR	
	43.96	15/120		Peking, China	
6840	43.85			Inner Mongolia, China	
6850	43.80	0.35		Warsaw, Poland	
6851	43.79	0.5		Mahabad, Iran	
6870	43.73	1	CR6RR	R. Diamang, Angola	
6890	43.54	15/120		Peking, China	
6925	43.33			Yunnan, China	
6974	43.02			Inner Mongolia, China	
6995	42.89	1		R. Mediterraneo, Spain	
	42.89	15/120		Peking, China	
7000	42.86	0.4		Izmir, Turkey	
	42.86	1	EFE34	R. Atlantico, Canary Isl.	
7010	42.80	10/50		Karachi, Pakistan	
7018	42.74	1		Istanbul Tec. Univ., Turkey	
7020	42.73			Hanoi, Vietnam (Dem. Rep.)	
7025	42.70	0.08		Robert College R., Turkey	
7050	42.55	50/100		Cairo, Un. Arab. Republic	
	42.52			Sinkiang, China	
7060	42.49	120/240		Peking, China	
7065	42.46	15/240		Peking China	
7070	42.42	1	CR6RR	R. Diamang, Angola	
7080	42.37	120/240		Peking, China	
	42.37	1	HSQ	Bangkok, Thailand	
7094	42.28	0.3		Jannina, Greece	
7095	42.28	120/240		Peking, China	
7096	42.27	1		Lahore, Pakistan	
		7100–7300 kc/s (41 m. b.)			
7100	42.25	15		Tashkent, USSR	
7105	42.22	10/100		R. Free Europe, Germany	
	42.22	5		R. Brazzaville, Congo	
	42.22		VUD	AIR, Delhi, India	
	42.22	1	CR6RO	R. Clube do Bie, Angola	
	42.22	4		R. Niger, Niger	
	42.22	100		R. Nacional, Spain	
7110	42.19	10		Colombo, Ceylon	
	42.19	15/100		BBC, London, Gt. Britain	
	42.19	7.5		Kampala, Uganda	
	42.19	10		Rawalpindi, Pakistan	
7115	42.16	120/240		Peking, China	
	42.16	1	CR6AA	R. Lobito, Angola	
	42.16	10/100		R. Free Europe, Germany	
	42.16	10		Sebaa-Aioun, Morocco	
7118	42.14	10	YDU6	Denpassar, Indonesia	
7120	42.13	7.5/100		BBC, Singapore, Malaya	
	42.13	15/100		BBC, London, Gt. Britain	
	42.13		VUD	AIR, Delhi, India	
7125	42.11	35		Courier (VOA), Greece	
	42.11	6		Nairobi, Kenya	
	42.11	50	XZK4	Rangoon, Burma	
	42.11	18		R. Nationale, Guinea (Rep.)	
	42.11	7.5/100		Warsaw, Poland	
	42.11	120/240		Peking, China	
7130	42.08	15/100		BBC, London, Gt. Britain	
	42.08	0.5/50	BED7	Taipei (BCC), Taiwan	
	42.08	7.5/20		BBC, Cyprus,	
	42.08	20/50		R. Liberty, Germany	
	42.08	10		Peshawar, Pakistan	
7132	42.06	40		Kiev, USSR	
7135	42.05	15/100		BBC, London, Gt. Britain	
	42.05	120/240		Peking, China	
	42.05	7.5/100		BBC, Singapore, Malaya	
7140	42.02	1	HSK6	R. Thailand, Thailand	
	42.02	10/100		R. Free Europe, Germany	
	42.02	25	3AM4	Monte Carlo, Monaco	
	42.02	15/100		BBC, London, Gt. Britain	
	42.02	7.5		Dacca, Pakistan	
	42.02	1	YDR2	Ambon, Indonesia	
	42.02			AIR, Hyderabad, India	
7140	42.02	5/7.5		R. Athens, Greece	
7142	42.01	0.25	CR6RA	R. Clube de Angola, Angola	
7143	42.00	0.1	TAO5	Tec. School, Istanbul, Turk.	
7145	41.99	10/100		R. Free Europe, Germany	
	41.99	4		R. Mali, Mali	
	41.99	1		R. Lao, Laos	
7150	41.96	15/100		BBC, London, Gt. Britain	
	41.96	0.5/50	BED35	Chiayi (BCC), Taiwan	
	41.96	5		R. Brazzaville, Congo	
	41.96			Erevan, USSR	
	41.96	20		Khabarovsk, USSR	
	41.96	15/240		Peking, China	
7150	41.96			AIR, Gauhati, India	
	41.96	6		Nairobi, Kenya	
	41.96		VUD	AIR, Delhi, India	
	41.96	5		R. Mogadiscio, Somaliland	
7152	41.94	0.5	CR6RD	Nova Lisboa, Angola	
7154	41.94			Naval War School R., Turk.	
7155	41.92	4		Tananarive, Madagascar	
	41.92	100		Amman, Jordan	
	41.92	35/100		Okinawa (VOA), Ryukyu Isl.	
7157	41.92	3		Tirana, Albania	
7160	41.90	10/100		Allouis, France	
	41.90	0.5/5		S. Isabel, Sp. Guinea	
	41.90	5/100	VUD	AIR, Delhi, India	
	41.90	35/100		Okinawa (VOA), Ryukyu Isl.	
	41.90	120/240		Peking, China	
	41.90	35/100		Tangier (VOA), Morocco	
	41.90			AIR, Bhopal/Ranchi, India	
7161	41.89	0.15	CR6RB	R. Cl. de Benguela, Angola	
	41.89	0.5		Serrai, Greece	
7165	41.87	10/100		R. Free Europe, Germany	
	41.87	20		Dar-es-Salaam, Tanganyika	
7170	41.84			AIR, Delhi, India	
	41.84	20/50		R. Liberty, Germany	
	41.84	50		Algier 4, Algeria	
	41.84	7.5		Aden, Aden	
	41.84	15/120		Peking, China	
7171	41.84	4		Dakar, Sénégal	
7175	41.81	10/100		R. Free Europe, Germany	
	41.81	40		Kiev, USSR	
	41.81			Caltanissetta, Italy	
	41.81	35/100		N. Luzon (VOA), Philipp.	
7180	41.78	1	BEG23	Taipei, Taiwan	
	41.78	10/100		R. Free Europe, Germany	
	41.78	2		Mombasa, Kenya	
	41.78	3		Benghazi, Libya	
	41.78	10	HLK4	Seoul, Korea	
	41.78	100		Baghdad, Iraq	
7183	41.76	10		R. Cambodge, Cambodia	
7185	41.75	15/100		BBC, London, Gt. Britain	
	41.75	40		Kiev, USSR	
	41.75	100		Praha, Czechoslovakia	
	41.75	20		Paradys, So. Africa	
7189	41.73	7.5/2.5	4XB49	Tel Aviv, Israel	
7190	41.72	10		Colombo, Ceylon	
	41.72	10/50/100		R. Australia, Australia	
	41.72	4		R. Dahomey, Dahomey	
	41.72		VUD	AIR, Delhi, India	
7192	41.71	10/100		R. Free Europe, Germany	
7195	41.70	100		Bucharest, Rumania	
7200	41.67	15/100		BBC, London, Gt. Britain	
	41.67	4/50	OEI31	Wien, Austria	
	41.67	3.5	BEC36	Taipei, Taiwan	
	41.67	40		Kiev, USSR	
	41.67			Stalinabad, USSR	
	41.67	0.25	OQ2AC	R. College, Congo (Rep.)	
	41.67	10/100		R. Belgrade, Yugoslavia	
	41.67	7.5	ZHL10	R. Malaya, Malaya	
	41.67	120/240		Peking, China	
	41.67	35/100		Tangier (VOA), Morocco	
	41.67	20		Khartoum, Sudan	
7205	41.64	0.50	CR7RB	R. Pax, Mozambique	
	41.64	1		R. Hué, Vietnam (Rep.)	
	41.64	10/100		R. Free Europe, Germany	
	41.64	35		Thessaloniki (VOA), Greece	
7210	41.61	100	HEI3	Schwarzenburg, Switzerland	
	41.61	100		Hörby, Sweden	
	41.61	120/240		Peking, China	
	41.61			AIR, Calcutta, India	
	41.61	15/100		BBC, London, Gt. Britain	
	41.61	5	YDH3	Semarang, Indonesia	
	41.61	20		Khabarovsk, USSR	
	41.61	10/100	LLS	R. Norway, Norway	
	41.61	25		R. Dakar, Sénégal	
	41.61	10		Nairobi, Kenya	
	41.61			Irkutsk, USSR	
7214	41.58	0.5		Kavalla, Greece	
7215	41.58	1	BEC27	AFRS, Taiwan	
	41.58	25		R. Abidjan, Ivory Coast	
	41.58	100		Trans World Radio, Monac.	
7220	41.55	15/100		BBC, London, Gt. Britain	
	41.55	10/50/100		R. Australia, Australia	
	41.55	10		Lusaka, Rhodesia	
	41.55	50	YDF5	Djakarta, Indonesia	
	41.55	100		Budapest, Hungary	
	41.55	20/50		R. Liberty, Germany	
7225	41.52	20/50		R. Liberty, Germany	
	41.52	0.5/50	BED20	Taipei (BCC), Taiwan	

kc/s	m	kW	Call	Stations and countries	Rem.
7225	41.52			AIR, Delhi, India	
	41.52	7.5		Dacca, Pakistan	
	41.52			Szechuan, China	
	41.52	10/100		R. Free Europe, Germany	
	41.52	100		Bucharest, Rumania	
	41.52	1		Lahore, Pakistan	
	41.52	10		Sebaa-Aioun, Morocco	
7230	41.49	20		Paradys, So. Africa	
	41.49	5	JKH	Tokyo, Japan	
	41.49	15/100		BBC, London, Gt. Britain	
	41.49	0.35	CR6RM	Moçamedes, Angola	
	41.49	120/240		Peking, China	
	41.49	1	HSQ	Bangkok, Thailand	
7235	41.47	10/100		R. Free Europe, Germany	
	41.47	100		Praha, Czechoslovakia	
	41.47	10		Colombo, Ceylon	
	41.47	8/100		Munich (VOA), Germany	
7238	41.45	5		R. Clube de Mozambique	
7240	41.44	15/120		Peking, China	
	41.44		HCTF2	R. Vigo, Ecuador	
	41.44	0.5	DZUP	State Univ., Philippines	
	41.44	10/100		R. Belgrade, Yugoslavia	
	41.44	10/100	LLR	R. Norway, Norway	
	41.44			AIR, Bombay, India	
	41.44	20	YDP3	Medan, Indonesia	
	41.44	10/100		Allouis, France	
	41.44	10		Nairobi, Kenya	
	41.44	1	BEC28	Taichung, Taiwan	
	41.44	4		R. Garoua, Fr. Cameroon	
	41.44	20	TAM	R. Ankara, Turkey	
7245	41.41	0.3/50	OEI33	Wien, Austria	
	41.41	20		Saigon, Vietnam	
	41.40	20/50		R. Liberty, Germany	
	41.41	10/100		R. Free Europe, Germany	
	41.40	0.25	CR6RE	Malanje, Angola	
7250	41.38	15/100		BBC, London, Gt. Britain	
	41.38	0.5/50	BED21	Taipei (BCC), Taiwan	
	41.38	5/25/50/100		Vatican City, Vatican State	
	41.38			AIR, Lucknow, India	
	41.38	35/100		Tangier (VOA), Morocco	
7254	41.36	7.5		R. Clube de Mozambique	
7255	41.35	20/50		R. Liberty, Germany	
	41.35	100		Praha, Czechoslovakia	
	41.35	20		Lagos, Nigeria	
	41.35	0.3		Beira, Mozambique	
	41.35	120		R. Sofia, Bulgaria	
	41.36	20	YDJ2	Jogjakarta, Indonesia	
7260	41.32	15/100		BBC, London, Gt. Britain	
	41.32	7.5/100		BBC, Singapore, Malaya	
	41.32			AIR, Madras, India	
	41.32	5		Tananarive, Madagascar	
7262	41.30	3.5	BEC71	Taipei, Taiwan	
7265	41.29	1.5		Bad Dürrheim (SWF), Ger.	
	41.29	12		Saigon, Vietnam	
	41.29	15/240		Peking, China	
	41.29	4		Lomé, Togo	
	41.29	35		Courier (VOA), Greece	
7270	41.27	7.5	YDB3	Djakarta, Indonesia	
	41.27	3		VUNC, Japan	
	41.27	12		Motala, Sweden	
	41.27	5/25/50/100		Vatican City, Vatican St.	
	41.27			Erevan, USSR	
	41.27			Magadan, USSR	
	41.27			Kashmir, India	
7275	41.24	50/60/100		R. Roma, Italy	
	41.24	20/50		R. Liberty, Germany	
	41.24	100		Praha, Czechoslovakia	
	41.24	35		Colombo, Ceylon	
7280	41.21	10		Dar-Es-Salaam, Tanganyika	
	41.21	10/100		Allouis, France	
	41.21	15/100		BBC, London, Gt. Britain	
	41.21	5/25/50/100		Vatican City, Vatican St.	
	41.21	10/50		Karachi, Pakistan	
	41.21	7.5	ZHL7	R. Malaya, Malaya	
	41.21	50		Komsomolsk, USSR	
	41.21	0.5	DXH2	Mindanao, Philipp.	
7284	41.18	0.5		Florina, Greece	
7285	41.18	100	TAS	R. Ankara, Turkey	
	41.18	100		Tehran, Iran	
	41.18	5	JKI	Tokyo, Japan	
	41.18	10/100		R. Free Europe, Germany	
	41.18	10/50		Karachi, Pakistan	
	41.18	5		Ibadan, Nigeria	
	41.18	0.2	CR6RP	Novo Redondo, Angola	
7288	41.16	5		Kisumu, Kenya	
7290	41.15	12	3WT12	Saigon, Vietnam (Rep.)	
	41.15		VUD	AIR, Delhi, India	

kc/s	m	kW	Call	Stations and countries	Rem.
7290	41.15	10/50		Karachi, Pakistan	
	41.15	50/60/100		R. Roma, Italy	
	41.15	10		Addis Ababa, Ethiopia	
7295	41.12	20	YDQ3	Makassar, Indonesia	
	41.12	20		Paradys, So. Africa	
	41.12	0.25	EAJ8AB	R. Cl. Tenerife, Canary Isl.	
	41.12	120/240		Peking, China	
	41.12	10/100		R. Free Europe, Germany	
	41.12	5/7.5		R. Athens, Greece	
	41.12	10/50		Karachi, Pakistan	
7300	41.09	10		Colombo, Ceylon	
	41.09	5		Deutschl.sender, Ger. (DDR)	
				7312–9500 kc/s	
7312	41.03	0.15	YNWN	R. Granada, Nicaragua	
7315	41.01	7.5/100		Warsaw, Poland	
7324	40.96			Kansu, China	
7325	40.96	15/100		BBC, London, Gt. Britain	
7330	40.93			Petropavlovsk, USSR	
	40.93			Ashkhabad, USSR	
	40.93			Stalinabad, USSR	
7335	40.90	3	CHU	Dominion Obs., Canada	
	40.90	120/240		Peking, China	
7340	40.87	100		Praha, Czechoslovakia	
7350	40.82	120/240		Peking, China	
7370	40.71	15/120		Peking, China	
7385	40.62			Sinkiang, China	
7398	40.56	7.5		Damascus, Syria	
7480	40.08	15/120		Peking, China	
7500	40.00	15/120		Peking, China	
7545	39.76	2	TAO	Istanbul Univ. R., Turkey	
7570	39.63	2		Angmagssalik, Greenland	
7602	39.46	0.5	YNRM	R. Musun, Nicaragua	
7620	39.37	15/120		Peking, China	
	39.37	0.5	HSQ	Bangkok, Thailand	
7650	39.22			Murmansk, USSR	
7651	39.22	1	TAR8	Ankara, Turkey	
7660	39.16	1	CE766	R. Yungay, Chile	
	39.16	0.25	YNMS	R. Philips, Nicaragua	
7670	39.11	50		R. Sofia, Bulgaria	
7753	38.67	0.15	YNCA	R. Atlantico, Nicaragua	
7770	38.61	15/120		Peking, China	
7800	38.50	0.4		Bata, Sp. Guinea	
7850	38.20	3		Tirana, Albania	
7880	38.08	4		Tananarive, Madagascar	
7890	38.02	0.1	YNBX	R. Oriental, Nicaragua	
7935	37.81	20	PSL	Agencia Nacional, Brazil	
7940	37.78	1.2		R. Alicante, Spain	
7948	37.75	1	CMQ	Bissau, Port. Guinea	
7950	37.70	0.5		Kozani, Greece	
8036	37.34	2		Beyruth, Lebanon	
8040	37.31	0.5		Rezaieh, Iran	
8425	35.46	15/120		Peking, China	
8660	34.64	15/120		Peking, China	
8900	33.70	0.2	HCJZ3	R. Fenix, Ecuador	
9009	33.03	7.5/50	4XB31	Tel Aviv, Israel	
9020	33.26	15/120		Peking, China	
9025	33.23	1	COBZ	R. Salas, Cuba	
9064	33.09	15/120		Peking, China	
9090	33.00			Inner Mongolia, China	
9170	32.72	15/120		Peking, China	
9180	32.68			Petropavlovsk, USSR	
9200	32.61	0.5	CE920	R. Militar Austral, Chile	
9210	32.59	50		R. dif. National, Congo Rep.	
9250	32.43	15		Alma Ata, USSR	
9295	32.28	2.5	PRN9	R. Dif. D.S.F.P., Brazil	
9335	32.14	0.3	OAX8C	R. Nac. Iquitos, Peru	
9340	32.12	15/120		Peking, China	
	32.12	15		Alma Ata, USSR	
9345	32.10		OAX4J	R. La Cronica, Peru	
9350	32.09		OAX6L	R. Nacional, Tacna, Peru	
9362	32.05	1	COBC	R. Progreso, Cuba	
9364	32.04	50		R. Nacional, Spain	
9370	32.02	100		R. Nacional, Spain	
9377	31.99	20		Khabarovsk, USSR	
9380	31.98	15		Alma Ata, USSR	
9390	31.95	15/120		Peking, China	
9400	31.92			Hanoi, Vietnam (Dem. R.)	
9410	31.88	15/100		BBC, London, Gt. Britain	
9455	31.74	0.5	OAX4W	R. America, Peru	
9460	31.72	120/240		Peking, China	
9465	31.70	20	TAP	R. Ankara, Turkey	
9470	31.68			Sinkiang, China	
9480	31.65	120/240		Peking, China	
	31.63	50	HI3U	R. Caribe, Dom. Rep.	
9490	31.61	1	EFE34	R. Atlantico, Canary Isl.	
	31.61	0.1	OAX6H	R. Tacna, Peru	
	31.61			Tibet, China	

kc/s	m	kW	Call	Stations and countries	Rem.
9492	31.60			Inner Mongolia, China	
		9500–9775 kc/s – 31 metre band			
9500	31.58	10	XEWW	Voz de la Am. Latina, Mexico	
	31.58			Petropavlovsk, USSR	
	31.58			Magadan, USSR	
	31.58	120/240		Peking, China	
	31.58			Chinghai, China	
9502	31.57	1	CR6RF	R. Cl. de Benguela, Angola	
9504	31.57	100		Praha, Czechoslovakia	
9505	31.56	1.5	BEC30	Kaohsiung, Taiwan	
	31.56	7.5	PRB22	R. Record, Brazil	
	31.56		VUD	AIR, Delhi, India	
	31.56	10/100		R. Belgrade, Yugoslavia	
	31.56	10		Lusaka, Rhodesia	
	31.56	1	HOLA	R. Atlantico, Panama	
	31.56	10/100		R. Free Europe, Germany	
	31.56	10/20	JOB9	R. Japan, Japan	
	31.56			AIR, Gauhati, India	
	31.56	50		Sebaa-Aioun, Morocco	
9510	31.55	15/100		BBC, London, Gt. Britain	
	31.55	10/50/100		R. Australia, Australia	
	31 55	120/240		Peking, China	
	31.55	100		Bucharest, Rumania	
	31.55	15	YVXJ	R. Barquisimeto, Venezuela	
9515	31.53	4		R. Bangui, C. African Rep.	
	31.53	4		Tananarive, Madagascar	
	31.53	1	PRD5	R. Roquete Pinto, Brazil	
	31.53	100	TAT	R. Ankara, Turkey	
	31.53	50/200	KNBH	Dixon, USA	
	31.53	50/60/100		R. Roma, Italy	
	31.53	10	CXA71	R. Sarandi, Uruguay	
	31.53	25		Ouagadougou, Upper Volta	
9520	31.51	10/100		Colombo, Ceylon	
	31 51	2	VLT9	Port Moresby, New Guinea	
	31.51	50	OZF5	Herstedvester, Denmark	
	31.51	35		Thessalonika (VOA), Greece	
	31.51	2	OAX8E	R. Loreto, Peru	
9525	31.50	15/100		BBC, London, Gt. Britain	
	31.50	20/100	JOB9	R. Japan, Japan	
	31.50	7.5/100		Warsaw, Poland	
	31.50	0.25		Nampula, Mozambique	
	31.50	20		Paradys, So. Africa	
9530	31.48			AIR, Calcutta, India	
	31.48	50	WBOU	Bound Brook, USA	
	31.48	100		Amman, Jordan	
	31.48			AIR, Delhi, India	
	31.48	20/50	WRUL	R. Boston, USA	
	31.48	15/100		BBC, London, Gt. Britain	
	31.48	5		Dar-Es-Salaam, Tanganyika	
	31.48	1	YVMZ	Maracaibo, Venezuela	
	31.48	35		Courier (VOA), Greece	
	31.48	8/100		Munich (VOA), Germany	
9535	31.46	0.25	COCO	R. Libre, Cuba	
	31.46	100		Hörby, Sweden	
	31.46	35/100		N. Luzon (VOA), Philipp.	
	31.46	100	HER4	Schwarzenburg, Switzerland	
	31.46	5	XEDF	R. Dif. Mexico, Mexico	
9540	31.45	10/50/100		R. Australia, Australia	
	31.45	0.3/4	OEI41	Wien, Austria	
	31.45	0.3	OAX4K	R. Central, Peru	
	31.45	7.5	ZL2	Wellington, New Zealand	
	31.45	50	XZK5	Rangoon, Burma	
	31.45	7.5/100		Warsaw, Poland	
9543	31.44	0.5	HRRH5	Voz de Occidente, Hond. R.	
9545	31.43	100	HED5	Schwarzenburg, Switzerland	
	31.43	110	WLWO	Bethany, USA	
	31.43	0.25	XEFT	La Voz de Vera Cruz, Mex.	
	31.43	7.5	4VC	R. Commerce, Haiti	
	31.43	10	ZYS43	R. Emis. Paranaense, Brazil	
	31.43	35/100		Okinawa (VOA), Ryukyu Isl.	
	31.43	50		R. Brazzaville, Congo	
9550	31.41	100		Praha, Czechoslovakia	
	31.41	2	DZI2	Manila, Philipp.	
	31.41	0.3	HCUM2	R. Universal, Ecuador	
	31.41	120/240		Peking, China	
	31.41	0.5	YDQ2	Makassar, Indonesia	
	31.41	15/100		BBC, London, Gt. Britain	
	31.41			AIR, Bombay, India	
	31.41	10/100	LLD	R. Norway, Norway	
	31.41	5		Grenada, Windward Isl.	
	31.41		OAX1Z	R. Nac. Tumbes, Peru	
9555	31.40	5	YSS	R. Nacional, El Salvador	
	31.40	1	CP6	R. Illimani, Bolivia	
	31.40	15/100		BBC, London, Gt. Britain	
	31.40	120/240		Peking, China	
	31.40			Stalinabad, USSR	
	31.40	0.5	XETT	La Hora Exacta, Mexico	

kc/s	m	kW	Call	Stations and countries	Rem.
9555	31.40		VUD	AIR, Delhi, India	
	31.40	35/50/100		Tangier (VOA), Morocco	
9560	31.38	15/100		BBC, London, Gt. Britain	
	31.38	10/50/100		R. Australia, Australia	
	31.38	10/100		Allouis, France	
	31.38	7.5/100		BBC, Singapore, Malaya	
	31.38	5		VUNC, Japan	
9562	31.37	40	OAX4R	R. Nacional Lima, Peru	
9565	31.37	15	ZYK3	R. Jorn. do Comercio, Br.	
	31.36	20/50		R. Liberty, Germany	
	31.36	7.5		R. Sarawak, Sarawak	
9570	31.35	1	YVOM	San Cristobal, Venezuela	
	31.35	10/50/100		R. Australia, Australia	
	31.35	10/100		Allouis, France	
	31.35	15/100		BBC, London, Gt. Britain	
	31.35	100		Bucharest, Rumania	
	31.35	15/240		Peking, China	
9575	31.33	50/60/100		R. Roma, Italy	
	31.33			AIR, Delhi, India	
	31.33	10	ZYZ27	R. Mayrink Veiga, Brazil	
	31.33			AIR, Lucknow/Gauhati, Ind.	
	31.33	25		R. Ulan Bator, Mongolia	
9580	31.32	10/50/100		R. Australia, Australia	
	31.32	15/100		BBC, London, Gt. Britain	
	31.32	2.5		Lusaka, Rhodesia	
9585	31.30	0.3	OBX4K	R. Selecta, Peru	
	31.30	100		Praha, Czechoslovakia	
	31.30	10/100		Allouis, France	
	31.30	50	CKLP	R. Canada, Canada	
	31.30	20/50		R. Liberty, Germany	
	31.30	1	ZYR56	R. Excelcior, Brazil	
	31.30	100		R. Nacional, Spain	
	31.30	120/240		Peking, China	
	31.30	50	YDF6	Djakarta, Indonesia	
	31.30		VUD	AIR, Delhi, India	
	31.30	4		R. Tchad, Tchad	
9586	31.29	0.25		Porto Amelia, Mozambique	
9590	31.28	50/100		R. Nederland, Holland	
	31.28	0.2	OAX5C	R. Ica, Peru	
	31.28			AIR, Madras, India	
	31.28	120/240		Peking, China	
	31.28	7.5		Kampala, Uganda	
	31.28	8/100		Munich (VOA), Germany	
9595	31.27	10/100		R. Free Europe, Germany	
	31.27	20/50		R. Liberty, Germany	
	31.27	10	JOZ3	Tokyo, Japan	
	31.27	10	ZYN29	R. Cultura da Bahia, Brazil	
	31.27	10	CXA72	R. Monte Carlo, Uruguay	
	31.27	10/50		Karachi, Pakistan	
9600	31.25	15/100		BBC, London, Gt. Britain	
	31.25	10	CE960	R. Pres. Balmaceda, Chile	
	31.25	50/200	KCBR	Delano, USA	
	31.25	40		Leningrad, USSR	
	31.25	120/240		Peking, China	
	31.25	7.5		Khartoum, Sudan	
	31.25	1	XEYU	Universidad Nac., Mexico	
9605	31.23	10/100		R. Free Europe, Germany	
	31.23	100	DMQ9	Deutsche Welle, Germany	
	31.23			AIR, Delhi, India	
	31.23	100		R. Nacional, Spain	
	31.23	1	CP22	R. Universidad, Bolivia	
	31.23	5/7.5		R. Athens, Greece	
9607	31.23	0.25	HP5J	La Voz de Panama, Panama	
9610	31.22	2/10	VLW/X9	Perth, Australia	
	31.22	10		Addis Ababa, Ethiopia	
	31.22	0.3	OEI42	Wien, Austria	
	31.22		VUD	AIR, Delhi, India	
	31.22	4		R. Mauritanie, Mauritania	
	31.22	1	HRZN	R. Pinares, Honduras	
	31.22	10	ZYC8	R. Tupi, Brazil	
	31.22	10/100	LLG	R. Norway, Norway	
9612	31.21	1	CR6RI	R. Diamang, Angola	
9614	31.20	7.5		Dacca, Pakistan	
9615	31.20	10/50/100		R. Australia, Australia	
	31.20	35/50/100		Tangier (VOA), Morocco	
	31.20	15/100		BBC, London, Gt. Britain	
	31.20	3	TIDCR	La Voz de la Victor, Costa R.	
	31.20	35/100		Okinawa (VOA), Ryukyu Isl.	
9620	31.19	7.5	CR7DE	R. Clube de Mozambique	
	31.19			AIR, Delhi, India	
	31.19	10/100		Allouis, France	
	31.19	12		R. Saigon, Vietnam (Rep.)	
	31.19	7.5	ZYR96	R. 9 de Julho, Brazil	
	31.19	1	COJK	Voz del Camagüeyano, Cuba	
	31.19	100		Hörby, Sweden	
	31.19	20	CXA6	S.O.D.R.E., Uruguay	
	31.19	10/100		R. Belgrade, Yugoslavia	

kc/s	m	kW	Call	Stations and countries	Rem.
9625	31.17	1	OAX8K	R. Atlantida, Peru	
	31.17	50/200	KNBH	Dixon, USA	
	31.17	7.5/100		BBC, Singapore, Malaya	
	31.17			Erevan, USSR	
	31.17	15/100		BBC, London, Gt. Britain	
	31.17	50		R. Brazzaville, Congo	
	31.17	40		Kiev, USSR	
9630	31.15	50	CKLO	R. Canada, Canada	
	31.15	0.5/50	BED33	Chiayi (BCC), Taiwan	
	31.15		VUD	AIR, Delhi, India	
	31.15	50/60/100		R. Roma, Italy	
	31.15	10/50/100		R. Australia, Australia	
9632	31.15	1	CR6RL	R. Clube de Angola, Angola	
9635	31.14	7.5	ZYR83	R. Aparecida, Brazil	
	31.14	50	WDSI	Wayne, USA	
	31.14	1	OCX4K	R. Metropolitana, Peru	
	31.14	100	CSA23	R. Nacional, Portugal	
	31.14	35		Thessaloniki (VOA), Greece	
	31.14	10/50/100		R. Australia, Australia	
	31.14	8/100		Munich (VOA), Germany	
9640	31.12	20/100	DMQ9	Deutsche Welle, Germany	
	31.12	15/100		BBC, London, Gt. Britain	
	31.12	1.3		Accra, Ghana	
	31.12	50/100	HLK5	Seoul, Korea	
	31.12	15		Alma Ata, USSR	
	31.12	1	DZH2	Manila, Philippines	
9645	31.10	1	TIFC	Faro del Caribe, Costa Rica	
	31.10	10/100	LLH	R. Norway, Norway	
	31.10	7.5	ZYV40	R. Cultura de Pocos, Brazil	
	31.10	10/50		Karachi, Pakistan	
	31.10	5/25/50/100		Vatican City, Vatican State	
9650	31.09	10/50/100		R. Australia, Australia	
	31.09	50	WBOU	Bound Brook, USA	
	31.09	7.5/20		BBC, Cyprus	
	31.09	100		Honolulu (VOA), Hawaii	
	31.09		VUD	AIR, Delhi, India	
	31.09	120/240		Peking, China	
9655	31.07	10/100		R. Free Europe, Germany	
	31.07	5	JKH2	Tokyo, Japan	
9656	31.06	7.5	CR7CC	R. Clube de Mozambique	
9660	31.06	4		R. Yaounde, Cameroon	
	31.06	5	LRX	R. El Mundo, Argentina	
	31.06	20/50		R. Liberty, Germany	
	31.06	100		Tehran, Iran	
	31.06	10	VLQ9	Brisbane, Australia	
	31.06	15/100		BBC, London, Gt. Britain	
	31.06	5/25/50/100		Vatican City, Vatican State	
	31.06	0.5/50	BED42	Taipei, Taiwan	
	31.06	50		Komsomolsk, USSR	
9665	31.04	1	CR6RD	Nova Lisboa, Angola	
	31.04	120/240		Peking, China	
	31.04	4	OEI23	Kronstorf, Austria	
	31.04	20/50		R. Liberty, Germany	
	31.04	35/100		Okinawa (VOA), Ryukyu Isl.	
	31.04	35/100		N. Luzon (VOA), Philipp.	
9667	31.04	1		R.Somali, Somaliland (Protec)	
9668	31.03	5	TGNB	R. Cultural, Guatemala	
9670	31.02	1	COCQ	Circuito CMQ, Cuba	
	31.02	100		Praha, Czechoslovakia	
	31.02	35/100		Okinawa (VOA), Ryukyu Isl.	
	31.02	10/100		R. Free Europe, Germany	
	31.02		VUD	AIR, Delhi, India	
	31.02	15/120		Peking, China	
	31.02			AIR, Bhopal, India	
9675	31.01	10	ZYT29	R. Diario da Manha, Brazil	
	31.01	7.5/100		Warsaw, Poland	
	31.01		OCX4W	R. Inca, Peru	
	31.01	20/100	JOA/B9	R. Japan, Japan	
	31.01	15/100		BBC, London, Gt. Britain	
9677	31.00	100		R. Nacional, Spain	
	31.00	40		Kiev, USSR	
9680	30.99	10/50/100		R. Australia, Australia	
	30.99	5/10	VLR/H9	Melbourne, Australia	
	30.99	10/100		Allouis, France	
	30.99	1	XEQQ	R. Mexicana del Centro, Mex.	
	30.99	20		Paradys, So. Africa	
	30.99	10		Peshawar, Pakistan	
	30.99	20/50		R. Liberty, Germany	
	30.99	35/100		Tangier (VOA), Morocco	
9685	30.98	5	HOF31	Onda Popular, Panama	
	30.98	7.5	ZYR227	R. Gazeta, Brazil	
	30.98	50		Algier 2, Algeria	
9690	30.96	100	LRA32	R. Nacional, Argentina	
	30.96	10		R. Goa, Goa	
	30.96	15/100		BBC, London, Gt. Britain	
	30.96	7.5/100		BBC, Singapore, Malaya	
	30.96	0.25	DZH5	Manila, Philipp.	

kc/s	m	kW	Call	Stations and countries	Rem.
9690	30.96	120/240		Peking, China	
	30.96	0.5/50	BED22	Taipei (BCC), Taiwan	
	30.96	4		R. Gabon, Gabon	
	30.96	10/50		Karachi, Pakistan	
9695	30.94	10/100		R. Free Europe, Germany	
	30.94	20/100	JOA/B9	R. Japan, Japan	
	30.94	100		R. Nacional, Spain	
9696	30.94	4		Tananarive, Madagascar	
9700	30.93	120		R. Sofia, Bulgaria	
	30.93	15/100		BBC, London, Gt. Britain	
	30.93	50/200	KCBR	Delano, USA	
	30.93	10	CE970	R. Vitalicia, Chile	
	30.93	100		R. Maroc, Morocco	
	30.93	50		R. dif. National, Congo Rep.	
9705	30.91	10/50		Karachi, Pakistan	
	30.91	20/50		R. Liberty, Germany	
	30.91	100	ORU3	Bruxelles, Belgium	
	30.91	10	ZYS24	R. Maua, Brazil	
	30.91		VUD	AIR, Delhi, India	
	30.91	10/100		R. Free Europe, Germany	
9708	30.90	4		R. Niger, Niger	
9710	30.90	50	YDF6	Djakarta, Indonesia	
	30.90	110	WLWO	Bethany, USA	
	30.90	15/100		BBC, London, Gt. Britain	
	30.90	50/60/100		R. Roma, Italy	
	30.90	35/100		Okinawa (VOA), Ryukyu Isl.	
9712	30.89	10/100		R. Free Europe, Germany	
9715	30.88	10/100		R. Free Europe, Germany	
	30.88	50/100		R. Nederland, Holland	
	30.88	0.5	CP21	R. La Plata, Bolivia	
9717	30.87	10/100		R. Free Europe, Germany	
	30.87	15/120		Peking, China	
9720	30.86	50	PRL7	R. Nacional, R. de Jan., Br.	
	30.86	0.5/50	BED8	Taipei (BCC), Taiwan	
	30.86	0.2		Nhatrang, Vietnam (Rep.)	
	30.86			AIR, Delhi, India	
	30.86	20		Paradys, So. Africa	
	30.86			AIR, Hyderabad, India	
9725	30.85	15/100		BBC, London, Gt. Britain	
	30.85	7.5/100		BBC, Singapore, Malaya	
	30.85	10/100		R. Free Europe, Germany	
	30.85	50		Komsomolsk, USSR	
9727	30.84	100	CSA26	R. Nacional, Portugal	
9730	30.83	12		Leipzig, Germany (DDR)	
	30.83	7.5	ZYU59	R. Soc. Farroupilha, Brazil	
	30.83	2	DZH7	Call of the Orient, Philipp.	
	30.83	20/50		R. Liberty, Germany	
	30.83	7		R. Brazzaville, Congo	
	30.83		VUD	AIR, Delhi, India	
	30.83	50/100		R. Nederland, Holland	
9735	30.82	15/100		BBC, London, Gt. Britain	
	30.82	15/120		Peking, China	
	30.82	20/100	DMQ9	Deutsche Welle, Germany	
	30.82	3	ZPA6	R. Guairá, Paraguay	
9740	30.80	10/50		Karachi, Pakistan	
	30.80	100	KCBR	Delano, USA	
	30.80	15/100		BBC, London, Gt. Britain	
	30.80	100	CSA27	R. Nacional, Portugal	
	30.80	35/50/100		Tangier (VOA), Morocco	
	30.80		VUD	AIR, Delhi, India	
	30.80	15	LRS1	R. Splendid, Argentina	
9745	30.78	100/20	ORU3/5	Bruxelles, Belgium	
	30.78	5		Biak, Neth. New Guinea	
	30.78	50/100		R. Nederland, Holland	
	30.78	1/30	HCJB	Voz de los Andes, Ecuador	
	30.78	7.5	ZYR57	R. Cultura, Brazil	
	30.78	4		R. Mali, Mali	
	30.78	20	TAP	R. Ankara, Turkey	
9750	30.77	100	CSA28	R. Nacional, Portugal	
	30.77	10/100		R. Free Europe, Germany	
	30.77	15/100		BBC, London, Gt. Britain	
	30.77	20		Khabarovsk, USSR	
	30.77	1	DZH3	Manila, Philipp.	
	30.77		VUD	AIR, Delhi, India	
9754	30.76	25		Saigon, Vietnam (Rep.)	
9755	30.76	10/100		Allouis, France	
	30.76	7.5	ZYW23	R. Brasil Central, Brazil	
	30.75	15/100		BBC, London, Gt. Britain	
	30.76	1	CR6RH	Sa da Bandeira, Angola	
	30.76	120/240		Peking, China	
	30.76	10/50		Karachi, Pakistan	
	30.76	10		Rawalpindi, Pakistan	
	30.76	35/50/100		Tangier (VOA), Morocco	
9760	30.74	15/100		BBC, London, Gt. Britain	
	30.74	30	LRY	R. Belgrano, Argentina	
	30.74	35/100		Tangier (VOA), Morocco	
9765	30.72	20/50		R. Liberty, Germany	

kc/s	m	kW	Call	Stations and countries	Rem.
9765	30.72	100	ORU3	Wavre, Belgium	
	30.72	15/100		Peking, China	
	30.72			Hanoi, Vietnam (Dem. R.)	
	30.72	15/100		BBC, London, Gt. Britain	
	30.72	1	CR6RZ	R. Angola, Angola	
9770	30.71	15/100		BBC, London, Gt. Britain	
	30.71	4/50	OEI47	Wien, Austria	
	30.71	0.5	4VWI	La Voix Evangelique, Haiti	
	30.70	7		R. Brazzaville, Congo	
	30.70	7.5/50		Manila (VOA), Philipp.	
9775	30.69	3.5	BEC62	Taipei, Taiwan	
	30.69	120/240		Peking, China	
				9775–11700 kc/s	
9785	30.66	120/240		Peking, China	
9790	30.64	40		Leningrad, USSR	
	30.64			Lvov, USSR	
9795	30.63	50/100		Cairo, Un. Arab. Rep.	
9800	30.61	120/240		Peking, China	
9805	30.60	50/100		Cairo, Un. Arab. Rep.	
9825	30.53	15/100		BBC, London, Gt. Britain	
9833	30.51	100		Budapest, Hungary	
9840	30.49	2		Baku, USSR	
	30.49			Hanoi, Vietnam (Dem. R.)	
9860	30.43	15/240		Peking, China	
9865	30.40	50	YDF8	Djakarta, Indonesia	
9915	30.26	15/100		BBC, London, Gt. Britain	
9920	30.24	15/120		Peking, China	
9945	30.17	15/120		Peking, China	
9972	30.08	15/120		Peking, China	
9990	30.02			Yunnan, China	
*10000	30.00	2	WWVH	Puunene, Hawaii	
*	30.00	0.5	MSF	Teddington, Gt. Britain	
*	30.00	9	WWV	Lanham, USA	
*	30.00	2	JJY	Tokyo, Japan	
*	30.00	2	LOL	Buenos Aires, Argentina	
*	30.00	0.25	ZUO	Johannesburg, So. Africa	
10220	29.35	20	PSH	Agencia Nacional, Brazil	
10245	29.28			Sinkiang, China	
10260	29.24	15/120		Peking, China	
**10332	29.04		GPB30	Rugby, Gt. Britain	
10530	28.50	15		Alma Ata, USSR	
11040	27.17			Inner Mongolia, China	
11100	27.03	15/120		Peking, China	
11290	26.57	15/120		Peking, China	
11330	26.47	15/120		Peking, China	
11515	26.05	15/120		Peking, China	
11600	25.86	15/120		Peking, China	
11630	25.79	40		Leningrad, USSR	
11650	25.75	120/240		Peking, China	
11660	25.73	15/120		Peking, China	
11670	25.71	50/100		Cairo, Un. Arab. Rep.	
11674	25.70	10/50		Karachi, Pakistan	
11675	25.70	15/240		Peking, China	
11680	25.68	15/100		BBC, London, Gt. Britain	
11685	25.67	5/25/50/100		Vatican City, Vatican State	
	25.67	120/240		Peking, China	
11690	25.66	15		Tashkent, USSR	
	25.66	15/120		Peking, China	
	25.66			Khabarovsk, USSR	
				11700–11975 kc/s – 625 metre band	
11700	25.64	15/100		BBC, London, Gt. Britain	
	25.64	1	TGQB	R. Nacional, Guatemala	
	25.64	40		Kiev, USSR	
11705	25.63	20/100	JOA/B11	R. Japan, Japan	
	25.63	100		Hörby, Sweden	
	25.63	15/100		BBC, London, Gt. Britain	
11710	25.62	10/50/100		R. Australia, Australia	
	25.62	50	WBOU	Bound Brook, USA	
	25.62		VUD	AIR, Delhi, India	
11715	25.61	50/200	KCBR	Delano, USA	
11720	25.60	5/7.5		R. Athens, Greece	
	25.60	50	CHOL	R. Canada, Canada	
	25.60	20/50		R. Liberty, Germany	
	25.60	10		R. Nac. Brasilia, Brazil	
	25.60	7.5/20		BBC, Cyprus	
	25.60	100	ORU4	Bruxelles, Belgium	
11725	25.59	100		Praha, Czechoslovakia	
	25.59	0.5/50	BED75	Taipei (BCC), Taiwan	
	25.58	10/100		R. Free Europe, Germany	
	25.58	20/100	JOA/B11	R. Japan, Japan	
	25.58	15/100		BBC, London, Gt. Britain	
	25.58	7.5/100		BBC, Singapore, Malaya	
	25.58	1	YSY	R. Victoria, El Salvador	
	25.58	10		Dacca, Pakistan	
	25.58	50		R. Brazzaville, Congo	
11730	25.58	15/100		BBC, London, Gt. Britain	
	25.58	50/200	KNBH	Dixon, USA	

kc/s	m	kW	Call	Stations and countries	Rem.
11730	25.58	100	LRA35	R. Nacional, Argentina	
	25.58	50/100		R. Nederland, Holland	
	25.58	50		Petropavlovsk, USSR	
	25.58		VUD	AIR, Delhi, India	
11735	25.56	10/100	LKQ	R. Norway, Norway	
	25.56	0.5/50	BED6	Taipei (BCC), Taiwan	
	25.56	10/100		R. Belgrade, Yugoslavia	
	25.56	5	CXA7	R. Oriental, Uruguay	
	25.56	10/100		R. Free Europe, Germany	
	25.56	7.5	ZYG3	R. Clube de Goiania, Brazil	
	25.56	50		R. Maroc, Morocco	
11740	35.55	10/50/100		R. Australia, Australia	
	25.55	5	CE1174	R. Nuevo Mundo, Chile	
	25.55	5/25/50/100		Vatican City, Vatican State	
	25.55	120/240		Peking, China	
	25.55	40		Kiev, USSR	
	25.55	35/100		Tangier (VOA), Morocco	
	25.55		VUD	AIR, Delhi, India	
	25.55	8/100		Munich (VOA), Germany	
11745	25.54	10/100		R. Free Europe, Germany	
	25.54	4	CR6RB	R. Eclesia, Angola	
11750	25.53	15/100		BBC, London, Gt. Britain	
	25.53	10		Tokyo (FEN), Japan	
	25.53	120/240		Peking, China	
	25.53	0.3		Damascus, Syria	
11755	25.52	10/100		R. Free Europe, Germany	
	25.52	50/100		R. Nederland, Holland	
	25.52	50		Komsomolsk, USSR	
	25.52	50		Petropavlovsk, USSR	
	25.52	20/50		R. Liberty, Germany	
11760	25.51	10/50/100		R. Australia, Australia	
	25.51	10/100		R. Free Europe, Germany	
	25.51			Hanoi, Vietnam (Dem. R.)	
	25.51	50	CKRA	R. Canada, Canada	
	25.51		VUD	AIR, Delhi, India	
	25.51	35/50/100		Tangier (VOA), Morocco	
	25.51	7.5		R. Clube de Mozambique	
	25.51	8/100		Munich (VOA), Germany	
11765	25.50	20/50		R. Liberty, Germany	
	25.50	25	ZYB8	R. Dif. de Sao Paulo, Brazil	
	25.50	10	CP29	La Cruz del Sur, Bolivia	
	25.50			Nauen, Germ. (DDR)	
	25.50	0.4	HCAU2	R. Atalaya, Ecuador	
11770	25.49	10/50/100		R. Australia, Australia	
	25.49	50	WBOU	Bound Brook, USA	
	25.49	15/100		BBC, London, Gt. Britain	
	25.49	7.5	YDE	Djakarta, Indonesia	
	25.49	100	YDF2	Djakarta, Indonesia	
	25.49		VUD	AIR, Delhi, India	
	25.49	35		Colombo, Ceylon	
11775	25.48	10	ZYZ28	R. Mayrink Veiga, Brazil	
	25.48	10/100		R. Free Europe, Germany	
	25.48	100		Honolulu, (VOA), Hawaii	
11780	25.47	10/100	JOA/B11	R. Japan, Japan	
	25.47	7	TFJ	Reykjavik, Iceland	
	25.47	7.5	ZL3	Wellington, New Zealand	
	25.47	20/50		R. Liberty, Germany	
	25.47	20/50	WRUL	R. Boston, USA	
	25.47	15/100		BBC, London, Gt. Britain	
	25.47	7.5/100		BBC, Singapore, Malaya	
	25.47		VUD	AIR, Delhi, India	
11785	25.46	40		Kiev, USSR	
	25.46	20/50		R. Liberty, Germany	
	25.46	0.3/4	OEI52	Wien, Austria	
	25.46	35/50/100		Tangier (VOA), Morocco	
	25.46	7.5	ZYU61	R. Guaiba, Brazil	
	25.46	100	YDF2	Djakarta, Indonesia	
	25.46	7.5/50		Manila (VOA), Philipp.	
11790	25.45	15/100		BBC, London, Gt. Britain	
	25.45			AIR, Delhi, India	
11795	25.43	20/100	DMQ11	Deutsche Welle, Germany	
	25.43	100	YDF3	Djakarta, Indonesia	
	25.43	50		R. National, Congo Rep.	
11800	25.42	7.5/100		Warsaw, Poland	
	25.42	15/100		BBC, London, Gt. Britain	
	25.42	20/100	JOA/B11	R. Japan, Japan	
	25.42	120/240		Peking, China	
	25.42		VUD	AIR, Delhi, India	
	25.42	50/100		R. Nederland, Holland	
11805	25.41	35		Courier (VOA), Greece	
	25.41	50/60/100		R. Roma, Italy	
	25.41	100		Hörby, Sweden	
	25.41	10/100		R. Free Europe, Germany	
11810	25.40	10/50/100		R. Australia, Australia	
	25.40			AIR, Delhi, India	
	25.40	50/60/100		R. Roma, Italy	
	25.40	100		Bucharest, Rumania	

kc/s	m	kW	Call	Stations and countries	Rem.
11815	25.39	10/100		R. Free Europe, Germany	
	25.39	50/100	JOB11	R. Japan, Japan	
	25.39	100		R. Nacional, Spain	
	25.39	7.5	ZYW24	R. Brasil Central, Brazil	
	25.39	7.5/100		Warsaw, Poland	
11820	25.38	15/100		BBC, London, Gt. Britain	
	25.38	10/100		R. Free Europe, Germany	
	25.38	120/240		Peking, China	
	25.38	7.5/100		BBC, Singapore, Malaya	
	25.38	0.15	XEBR	El Heraldo de Sonora, Mex.	
	25.38	40		Kiev, USSR	
	25.38			Magadan, USSR	
11825	25.37	20/50		R. Liberty, Germany	
	25.37	10/50		ELWA, Liberia	
	25.37	110	WLWO	Bethany, USA	
	25.37	100	YDF2	Djakarta, Indonesia	
11830	25.36	50/200	KCBR	Delano, USA	
	25.36	25/100	WGEO	Schenectady, USA	
	25.36			AIR, Delhi, India	
	25.36	10/100		R. Free Europe, Germany	
	25.36	8/100		Munich (VOA), Germany	
	25.36	20/50	WRUL	R. Boston, USA	
	25.36	10		Dacca, Pakistan	
	25.36		VUD	AIR, Delhi, India	
11835	25.35	5	CXA19	El Espectador, Uruguay	
	25.35	35		Colombo, Ceylon	
	25.35	0.4		La Voix Evangelique, Haiti	
	25.35	50		Algier I, Algeria	
11840	25.34	10		R. Atlantico, Portugal	
	25.34	100	CSA58	R. Nacional, Portugal	
	25.34	10/50/100		R. Australia, Australia	
	25.34	15/100		BBC, London, Gt. Britain	
	25.34	20		Paradys, So. Africa	
	25.34	20		Khabarovsk, USSR	
	25.34			Hanoi, Vietnam (Dem. R.)	
	25.34	100		Praha, Czechoslovakia	
11843	25.33	50		Saigon, Vietnam (Rep.)	
11845	25.33	10/100		Allouis, France	
	25.33	10/50		Karachi, Pakistan	
	25.33	35		Thessaloniki (VOA), Greece	
11850	25.32	10/50/100		R. Australia, Australia	
	25.32	4		R. Niger, Niger	
	25.32			AIR, Delhi, India	
	25.32	10/100	LLK	R. Norway, Norway	
	25.32	50		Komsomolsk, USSR	
	25.32	50		Petropavlovsk, USSR	
	25.32	120		R. Sofia, Bulgaria	
11855	25.31	10/100		R. Free Europe, Germany	
	25.31	2	DZH8	Call of the Orient, Philipp.	
11860	25.30	15/100		BBC, London, Gt. Britain	
	25.30	0.5/50	BED45	Taipei (BCC), Taiwan	
	25.30	15/120/240		Peking, China	
	25.30	40		Kiev, USSR	
	25.30		VUD	AIR, Delhi, India	
	25.30	100		R. Nacional, Spain	
11865	25.28	100	HER5	Schwarzenburg, Switzerland	
	25.28	7.5/100		Warsaw, Poland	
	25.28	20		Elisabethville, Congo (Rep.)	
	25.28	7.5	PRA8	R. Cl. de Pernambuco, Brazil	
	25.28	10		Dacca, Pakistan	
11870	25.27	50	WBOU	Bound Brook, USA	
	25.27	10/50/100		R. Australia, Australia	
	25.27	50/200	KNBH	Dixon, USA	
	25.27	20/100	DMQ11	Deutche Welle, Germany	
	25.27	35/100		Tangier (VOA), Morocco	
11875	25.26	35/100		Tangier (VOA), Morocco	
	25.26	100	CSA58	R. Nacional, Portugal	
	25.26	110	WLWO	Bethany, USA	
	25.26	50/200	KCBR	Delano, USA	
	25.26	10	ZYN32	R. Soc. da Bahia, Brazil	
	25.26	35		Colombo, Ceylon	
11880	25.25	50	LRS	R. Splendid, Argentina	
	25.25	10	VLH11	Melbourne, Australia	
	25.25	10/50/100		R. Australia, Australia	
	25.25	15/100		BBC, London, Gt. Britain	
	25.25	7.5/100		BBC, Singapore, Malaya	
	25.25	5	XEHH	R. Dif. Comerciales, Mex.	
	25.25	100		Hörby, Sweden	
11885	25.24	10/100		R. Free Europe, Germany	
	25.24	10/100		Allouis, France	
	25.24	40		Leningrad, USSR	
	25.24	10	CXA68	R. Sarandi, Uruguay	
	25.24	10/50		Karachi, Pakistan	
	25.24	120/240		Peking, China	
11890	25.23	15/100		BBC, London, Gt. Britain	
	25.23	3		VUNC, Japan	
	25.23	40		Kiev, USSR	

kc/s	m	kW	Call	Stations and countries	Rem
11890	25.23	35/100		Tangier (VOA), Morocco	
	25.23	10		Dacca, Pakistan	
11895	25.22	100		Senegal, Dakar	
	25.22	10/100		R. Free Europe, Germany	
	25.22	35/100		N. Luzon (VOA), Philipp.	
11900	25.21	50/200	KCBR	Delano, USA	
	25.21	20		Paradys, So. Africa	
	25.21	20	CXA10	S.O.D.R.E., Uruguay	
	25.21	50		Komsomolsk, USSR	
	25.21	50		Petropavlovsk, USSR	
11905	25.20	50/60/100		R. Roma, Italy	
	25.20	20/100	DMQ11	Deutsche Welle, Germany	
	25.20	50	WDSI	Wayne, USA	
	25.20		VUD	AIR, Delhi, India	
11910	25.19	15/100		BBC, London, Gt. Britain	
	25.19	100		Budapest, Hungary	
	25.19	0.5/50	HSK7/9	R. Thailand, Thailand	
	25.19	15/240		Peking, China	
11915	25.18	50/100		R. Nederland, Holland	
	25.18	30	HCJB	Voz de los Andes, Ecuador	
	25.18	10/100		R. Free Europe, Germany	
	25.18	7.5	PRC20	R. Soc. Gaucha, Brazil	
	25.18	50/100		Cairo, Un. Arab. Rep.	
11920	25.17	10/100		Allouis, France	
	25.17	0.5/50	BED4	Taipei (BCC), Taiwan	
	25.17	0.25		Grenada, Windw. Isl.	
	25.17	20/50		R. Liberty, Germany	
	25.17	15/100		BBC, London, Gt. Britain	
	25.17	7.5/100		BBC, Singapore, Malaya	
	25.17	50	DZF2	Call of the Orient, Philipp.	
	25.17		VUD	AIR, Delhi, India	
	25.17	10/50		Karachi, Pakistan	
11925	25.19	10	ZYR78	R. Bandeirantes, Brazil	
	25.16	20/100	DMQ11	Deutsche Welle, Germany	
	25.16	20/50		R. Liberty, Germany	
	25.16	50	HLK6	Seoul, Korea	
	25.16	15/120		Peking, China	
	25.16		VUD	AIR, Delhi, India	
	25.16	5/7.5		R. Athens, Greece	
11930	25.15	15/100		BBC, London, Gt. Britain	
	25.15	10/100		R. Free Europe, Germany	
	25.15	7.5/100		BBC, Singapore, Malaya	
11935	25.14	0.3/4	OEI54	Wien, Austria	
	25.14	7.5	ZYS35	R. Cl. Paranaense, Brazil	
	25.14	15/120		Peking, China	
	25.14	20/50		R. Liberty, Germany	
	25.14	50/100		R. Nederland, Holland	
	25.14	20		Paradys, So. Africa	
11937	25.13	100		Bucharest, Rumania	
11940	25.13	10/100		R. Free Europe, Germany	
	25.12	3	ZPA5	R. Encarnacion, Paraguay	
	25.13	5	CE1190	R. Coop. Vitalicia, Chile	
	25.13		VUD	AIR, Delhi, India	
11945	25.12	15/100		BBC, London, Gt. Britain	
	25.12	20/100	DMQ11	Deutsche Welle, Germany	
	25.12	120/240		Peking, China	
	25.12	50	CKNK	R. Canada, Canada	
11950	25.10	50/100		R. Nederland, Holland	
	25.10	10		Jeddah, Saudi Arabia	
	25.10	7.5	PRL3	R. Dif. Educativa, Brazil	
	25.10	1	YSAX	La Voz Panamericana, El Salv.	
11955	25.09	15/100		BBC, London, Gt. Britain	
	25.09	50	WDSI	Brentwood, USA	
	25.09	7.5/100		Warsaw, Poland	
	25.09	120/240		Peking, China	
	25.09	2.5	CE1196	Soc. Nac. de Mineria, Chile	
	25.09	10		R. Addis Ababa, Ethiopia	
11960	25.08	35/100		Okinawa (VOA), Ryukyu Isl.	
	25.08	10	OIX2	Pori, Finland	
	25.08	7.5/50		Manila (VOA), Philipp.	
11965	25.07	7.5	PRB24	R. Record, Brazil	
	25.07	120/240		Peking, China	
	25.07	20/50		R. Liberty, Germany	
	25.07	15/100		BBC, London, Gt. Britain	
11970	25.06	50		R. Brazzaville, Congo	
	25.06	15/100		BBC, London, Gt. Britain	
	25.06	1	YVLK	R. Rumbos, Venezuela	
	25.06	110	WLWO	Bethany, USA	
	25.06	0.5/50	BED37	Chiayi (BCC), Taiwan	
	25.06	50		R. Tunis, Tunisia	
11975	25.05	120/240		Peking, China	
11980	25.04	120/240		Peking, China	
11985	25.03	50/100		Cairo, Un. Arab. Rep.	
	25.03	1	CR6RD	Nova Lisboa, Angola	
				11995–15100 kc/s	
11990	25.02	50/100		Cairo, Un. Arab. Rep.	
	25.02	100		Praha, Czechoslovakia	

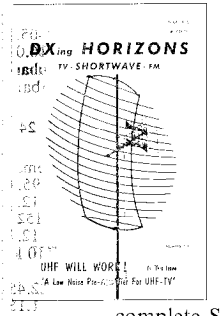
kc/s	m	kW	Call	Stations and countries	Rem.
11995	25.01	100	CSA32	R. Nacional, Portugal	
	25.01	50/100		R. Cairo, Un. Arab. Rep.	
12000	25.00	5	CE1200	R. Soc. Nac. de Agric., Chile	
12008	24.98	12		Leipzig, Germany (DDR)	
12010	24.98	120/240		Peking, China	
12020	24.96		VUD	AIR, Delhi, India	
12030	24.94	50/100		Cairo, Un. Arab. Rep.	
12040	24.92	15/100		BBC, London, Gt. Britain	
	24.92	50/100		Cairo, Un. Arab. Rep.	
12055	24.89			Hanoi, Vietnam (Dem. R.)	
	24.89	120/240		Peking, China	
12095	24.80	15/100		BBC, London, Gt. Britain	
**13555			GIC33	Rugby, Gt. Britain	
**14670	20.45	3	CHU	Dom. Observatory, Canada	
14690	20.45	20	PSF	Agencia Nac., Brazil	
*15000	20.00	2	WWVH	Puunene, Hawaii	
*	20.00	9	WWV	Washington, USA	
*	20.00	2	JJY	Tokyo, Japan	
*	20.00	2	LOL	Buenos Aires, Argentina	
15020	19.98			Hanoi, Vietnam (DR)	
15030	19.96	15/240		Peking, China	
15050	19.93	50		Petropavlovsk, USSR	
15060	19.92	120/240		Peking, China	
15070	19.91	15/100		BBC, London, Gt. Britain	
15085	19.89	50		ELWA, Liberia	
15095	19.87	120/240		Peking, China	
15097	19.87	5	CR7BG	R. Cl. de Mozambique, Moz.	
15100	19.87	100	CSA39	R. Nacional, Portugal	
				15100–15450 kc/s (19 m.b.)	
15105	19.86	50	CKUS	R. Canada, Canada	
	19.86	0.5/50	BED64	Taipei (BCC), Taiwan	
	19.86		VUD	AIR, Delhi, India	
	19.86	20/50		R. Liberty, Germany	
	19.86	7.5	ZYZ32	R. Rural Brasfleira, Brazil	
	19.86	100		R. Tehran, Iran	
15110	19.85	15/100		BBC, London, Gt. Britain	
	19.85	50		Petropavlovsk, USSR	
15115	19.85	1/30	HCJB	Voz de los Andes, Ecuador	
	19.85	50/100	JOB15	R. Japan, Japan	
	19.85		XERR	R. Dif. Comerciales, Mexico	
	19.85	10/100		R. Free Europe, Germany	
	19.85	120/240		Peking, China	
15120	19.84	50/60/100		R. Roma, Italy	
	19.84	5/25/50/100		Vatican City, Vatican State	
	19.84	35		Colombo, Ceylon	
	19.84	7.5/100		Warsaw, Poland	
	19.84	10/50/100		R. Australia, Australia	
	19.84		VUD	AIR, Delhi, India	
15125	19.83	100	CSA64	R. Nacional, Portugal	
	19.83	50/200	KCBR	Delano, USA	
	19.83	50	HLK41	Seoul, Korea	
	19.83	100		Praha, Czechoslovakia	
	19.83	35/100		N. Luzon (VOA), Philipp.	
15130	19.83		VUD	AIR, Delhi, India	
	19.83	15/100		BBC, London, Gt. Britain	
	19.83	50	WBOU	Bound Brook, USA	
	19.83	10/100		Allouis, France	
	19.83	35/100		N. Luzon (VOA), Philipp.	
15135	19.82	20/100	JOA/B15	R. Japan, Japan	
	19.82	7.5	PRB23	R. Record, Brazil	
	19.82	10/100		R. Free Europe, Germany	
15140	19.82	15/100		BBC, London, Gt. Britain	
	19.82	50		Petropavlovsk, USSR	
	19.82	120/240		Peking, China	
	19.82		VUD	AIR, Delhi, India	
15145	19.81	10/100		R. Free Europe, Germany	
	19.81	15	ZYK33	R. Jornal do Comercio, Br.	
	19.81	10/50		Karachi, Pakistan	
15150	19.80	5	CE1515	R. Corporacion, Chile	
	19.80			AIR, Delhi, India	
	19.80	50/200	KCBR	Delano, USA	
	19.80	7.5/100	YDC	Djakarta, Indonesia	
	19.80	50	OAX4T	R. Nacional Lima, Peru	
15152	19.80	5/10	CR7BG	R. Cl. de Mozambique, Moz.	
15155	19.80	100		Hörby, Sweden	
	19.80	50	WBOU	Bound Brook, USA	
	19.80	25	ZYB9	R. Dif. de Sao Paulo, Bazil	
	19.80	10/50		Karachi, Pakistan	
	19.80	7.5/50		Manila (VOA), Philipp.	
15160	19.79	10/50/100		R. Australia, Australia	
	19.79		VUD	AIR, Delhi, India	
	19.79	100	TAU	R. Ankara, Turkey	
	19.79	10	XEWW	Voz de la America Lat., Mex.	
	19.79	10/100		Allouis, France	
15165	19.78	50	OZF7	Herstedvester, Denmark	
15165	19.78	20		Damascus, Un. Arab. Rep.	
	19.78	5	ZYN7	Ceará R. Clube, Brazil	
15170	19.78	10/100	LKV	R. Norway, Norway	
	19.78		VUD	AIR, Delhi, India	
	19.78	10/100		R. Free Europe, Germany	
15175	19.77	10/100	LLM	R. Norway, Norway	
	19.77	1	BEH22	Taipei, Taiwan	
	19.77	10/50/100		R. Australia, Australia	
	19.77	15/120		Peking, China	
15180	19.76	15/100		BBC, London, Gt. Britain	
	19.76	10/50/100		R. Australia, Australia	
	19.76	50		Global Broadc. Co., USA	
15185	19.76	10/100		R. Free Europe, Germany	
	19.76	50	WBOU	Bound Brook, USA	
	19.76	35/100		N. Luzon (VOA), Philipp.	
	19.76	35/100		Tangier (VOA), Morocco	
15190	19.75	50	CKCX	R. Canada, Canada	
	19.75	50		R. Brazzaville, Congo	
	19.76	100	OIX4	Pori, Finland	
	19.75	120/240		Peking, China	
	19.75		VUD	AIR, Delhi, India	
15195	19.74		VUD	AIR, Delhi, India	
	19.74	20	TAQ	R. Ankara, Turkey	
	19.74	10/100		R. Free Europe, Germany	
	19.74	50		Petropavlovsk, USSR	
	19.74	50		Komsomolsk, USSR	
15200	19.74	50	WDSI	Wayne, USA	
	19.74	10/50/100		R. Australia, Australia	
15205	19.73	5	XESC	Heraldo del Junco, Mexico	
	19.73	10/50		Karachi, Pakistan	
	19.73	35/50/100		Tangier (VOA), Morocco	
	19.73	40		Kiev, USSR	
15210	19.72	10/50/100		R. Australia, Australia	
	19.72	50/200	KCBR	Delano, USA	
	19.72	15/100		BBC, London, Gt. Britain	
	19.72	7.5/50		Manila (VOA), Philippines	
	19.72	35		Colombo, Ceylon	
15215	19.71	10/100		R. Free Europe, Germany	
	19.72	50		Komsomolsk, USSR	
	19.72	35/100		Okinawa (VOA), Ryukyu Isl.	
15220	19.71	10/50/100		R. Australia, Australia	
	19.71	50/100		R. Nederland, Holland	
15225	19.70	0.5/50	BED5	Taipei (BCC), Taiwan	
	19.70	20/50		R. Liberty, Germany	
	19.70		VUD	AIR, Delhi, India	
	19.70	50		R. St. KGEI, USA	
15230	19.70	10	VLH15	Melbourne, Australia	
	19.70	15/100		BBC, London, Gt. Britain	
	19.70	10/50/100		R. Australia, Australia	
	19.70	50	WBOU	Bound Brook, USA	
	19.70	20/50	WRUL	R. Boston, USA	
	19.70			Khabarovsk, USSR	
15235	19.69		VUD	AIR, Delhi, India	
	19.69	50	WDSI	Wayne, USA	
	19.69	20/100	JOA/B15	R. Japan, Japan	
	19.69	50		Komsomolsk, USSR	
	19.69	0.5/50	BED3	Taipei (BCC), Taiwan	
	19.69	120/240		Peking, China	
15240	19.69	10/100		R. Belgrade, Yugoslavia	
	19.69	100		Hörby, Sweden	
	19.69	10/50/100		R. Australia, Australia	
	19.69	15/120		Peking, China	
15245	19.68			Petropavlovsk, USSR	
	19.68	110	WLWO	Bethany, USA	
	19.68			AIR, Delhi, India	
	19.68	10	ZYE21	R. Marajoara, Brazil	
	19.68	10/100		Allouis, France	
15250	19.67	110	WLWO	Bethany, USA	
	19.67	7.5/50		Manila (VOA), Philippines	
	19.67	120/240		Peking, China	
15252	19.67	50		Petropavlovsk, USSR	
15255	19.66	10/100		R. Free Europe, Germany	
	19.67	50	CKSR	R. Canada, Canada	
	19.66	50	HLK7	Seoul, Korea	
	19.67	20/50		R. Liberty, Germany	
15257	19.66	1/10		Tokyo (FEN), Japan	
15260	19.66	15/100		BBC, London, Gt. Britain	
	19.66	120/240		Peking, China	
15265	19.66	10/100		R. Free Europe, Germany	
	19.66	10	PRG9	R. Nac. Sao Paulo, Brazil	
	19.65	35		Colombo, Ceylon	
	19.65	20		Paradys, So. Africa	
15270	19.65	50	WBOU	Bound Brook, USA	
	19.65	50	WDSI	Brentwood, USA	
	19.65	120/240		Peking, China	
	19.65	10		Dacca, Pakistan	
	19.65	35/100		Tangier (VOA), Morocco	
15270	19.65		VUD	AIR, Delhi, India	
15275	19.64	20/100	DMQ15	Deutsche Welle, Germany	

kc/s	m	kW	Call	Stations and countries	Rem.
15275	19.64	35/100		N. Luzon (VOA), Philipp.	
	19.64	7.5/100		Warsaw, Poland	
	19.64	10/50		Karachi, Pakistan	
15280	19.63	7.5	ZL4	Wellington, New Zealand	
	19.63	0.5/50	BED36	Chiayi (BCC), Taiwan	
15285	19.63	20/100	DMQ15	Deutsche Welle, Germany	
	19.63	20/50	WRUL	R. Boston, USA	
	19.63	100		Praha, Czechoslovakia	
15290	19.62	10	LRU	R. El Mundo, Argentina	
	19.62			AIR, Delhi, India	
	19.62	15/240		Peking, China	
	19.62	110	WLWO	Bethany, USA	
15295	19.62	10/100		Allouis, France	
	19.62	10	PRL8	R. Nac. Rio de Janeiro, Br.	
	19.62	25/50/100		Tangier (VOA), Morocco	
	19.62	10/100		R. Free Europe, Germany	
	19.62	20/100	DMQ15	Deutsche Welle, Germany	
15300	19.61	15/100		BBC, London, Gt. Britain	
	19.61	7.5/100		BBC, Singapore, Malaya	
	19.60	2	DZH9	Call of the Orient, Philipp.	
	19.61	0.25	XERUU	Chihuahua, Mexico	
	19.61		VUD	AIR, Delhi, India	
	19.61	20/50		R. Liberty, Germany	
15305	19.60	10		Dacca, Pakistan	
15310	19.60	15/100		BBC, London, Gt. Britain	
	19.60	20/100	DMQ15	Deutsche Welle, Germany	
	19.60			AIR, Delhi, India	
	19.60	7.5/100		BBC, Singapore, Malaya	
	19.60	50/200	KCBR	Delano, USA	
15313	19.59	15/120		Peking, China	
15315	19.59	100	KCBR	Delano, USA	
	19.59	100	HEU6	Schwarzenburg, Switzerland	
	19.59	10/50/100		R. Australia, Australia	
15320	19.58	10/50/100		R. Australia, Australia	
	19.58	0.5/50	BED38	Chiayi (BCC), Taiwan	
	19.58	50	CKCS	R. Canada, Canada	
	19.58			Kaunas, USSR	
	19.58	35/50/100		Tangier (VOA), Morocco	
15325	19.58	1	ZYR228	R. Gazeta, Brazil	
	19.58	50/60/100		R. Roma, Italy	
15330	19.57	25/100	WEGO	Schenectady, USA	
	19.57	120		R. Sofia, Bulgaria	
	19.57	35/100		N. Luzon (VOA), Philipp.	
	19.57	10/50/100		R. Australia, Australia	
15330	19.57	50/100		Cairo, Un. Arab. Rep.	
	19.57	35		Thessaloniki (VOA), Greece	
	19.57	8/100		Munich (VOA), Germany	
15335	19.56	10/50		Karachi, Pakistan	
	19.56	7.5	ZYU68	R. Soc. Farroupilha, Br.	
	19.56	100/20	ORU3/5	Bruxelles, Belgium	
	19.56	50		Komsomolsk, USSR	
	19.56	10		Dacca, Pakistan	
	19.56	35/100		N. Luzon (VOA), Philipp.	
	19.56	35/100		Tangier (VOA), Morocco	
15340	19.56	1		Ministerio de Educacion, Cub.	
15345	19.55	5/7.5		R. Athens, Greece	
	19.55	0.5/50	BED49	Taipei (BCC), Taiwan	
	19.55	100	LRA33	R. Nacional, Argentina	
	19.55	50		Sebaa-Aioun, Morocco	
	19.55	120/240		Peking, China	
15350	19.54	10/100		Allouis, France	
	19.54	110	WLWO	Bethany, USA	
	19.54	5		R. Luxembourg, Luxembourg	
	19.53	10/100		R. Free Europe, Germany	
15360	19.53	7.5/100		BBC, Singapore, Malaya	
	19.53	10/100		R. Free Europe, Germany	
	19.53	15/100		BBC, London, Gt. Britain	
15365	19.52	50/100		R. Nederland, Holland	
	19.52	10/100		R. Free Europe, Germany	
	19.52	100		Dakar, Sénégal	
	19.52	110	WLWO	Bethany, USA	
	19.52	35/100		Tangier (VOA), Morocco	
15370	19.52	10	ZYC9	R. Tupi, Brazil	
	19.52	0.25		Grenada, Windw. Isl.	
	19.52	20/50		R. Liberty, Germany	
	19.52		VUD	AIR, Delhi, India	
15375	19.51	15/100		BBC, London, Gt. Britain	
15380	19.50	100	CSA42	R. Nacional, Portugal	
	19.51	35/100		Okinawa (VOA), Ryukyu Isl.	
	19.51	20/50	WRUL	R. Boston, USA	
	19.51	50	HSK9	R. Thailand, Thailand	
15385	19.50	10	CXA60	R. Sarandi, Uruguay	
	19.50	50		R. Goa, Goa	
	19.50	50	DZF3	Call of the Orient, Philipp.	
	19.50	50		Kabul, Afganistan	
	19.50	35/100		Tangier (VOA), Morocco	
15395	19.49	20/50		R. Liberty, Germany	

kc/s	m	kW	Call	Stations and countries	Rem.
15400	19.48			AIR, Delhi, India	
	19.48	5		Grenada, Windw. Isl.	
	19.48	15/100		BBC, London, Gt. Britain	
	19.48	50/60/100		R. Roma, Italy	
15405	19.47	20/100	DMQ15	Deutsche Welle, Germany	
	19.47	10/100		R. Free Europe, Germany	
	19.47	0.35		Paramaribo, Surinam	
15410	19.47	50	HLK8	Seoul, Korea	
	19.47	50		R. Goa, Goa	
	19.47	20/50		R. Liberty, Germany	
15415	19.46	15/100		BBC, London, Gt. Britain	
	19.46	100		Budapest, Hungary	
	19.46	1	ZYR206	R. Cl. de Ribeirão Preto, Br.	
	19.46	8/100		Munich (VOA), Germany	
15417	19.46	120/240		Peking, China	
15420	19.46	10/100		R. Free Europe, Germany	
	19.46	100		R. Nacional, Spain	
	19.46	50		R. Brazzaville, Congo	
	19.46	7.5/100		BBC, Singapore, Malaya	
	19.46	15/100		BBC, London, Gt. Britain	
15422	19.46			Novosibirsk, USSR	
15425	19.45	50/100		R. Nederland, Holland	
	19.45	5/7.5		R. Athens, Greece	
	19.45	10	VLX15	Perth, Australia	
15430	19.44	120/240		Peking, China	
	19.44			Erivan, USSR	
	19.44			Kazan, USSR	
	19.44	50/100		Cairo, Un. Arab. Rep.	
15435	19.44	15/100		BBC, London, Gt. Britain	
	19.44	20	ORU5	Wavre, Belgium	
	19.44	7.5/100		BBC, Singapore, Malaya	
15440	19.43	8/100		München (VOA), Germany	
15445	19.43	50/100		R. Nederland, Holland	
	19.43	50		R. Brazzaville, Congo	
	19.43	15/120		Peking, China	
15447	19.42	15/100		BBC, London, Gt. Britain	
				15427–17700 kc/s	
15457	19.41	50		Komsomolsk, USSR	
15465	19.40	0.35		Paramaribo, Surinam	
	19.39	50/100		R. Cairo, Un. Arab. Rep.	
15475	19.38	50/100		R. Cairo, Un. Arab. Rep.	
15480	19.38	15/120		Peking, China	
15500	19.35	120/240		Peking, China	
15520	19.38	120/240		Peking, China	
15550	19.29	15/120		Peking, China	
15590	19.24	15/120		Peking, China	
15610	19.22	15/120		Peking, China	
15630	19.19	0.25	HSK8	R. Thailand, Thailand	
15710	19.10	15/120		Peking, China	
15580	18.89	15/120		Peking, China	
17450	17.20	15/120		Peking, China	
17490	17.15	15/120		Peking, China	
17533	17.11	15/120		Peking, China	
17605	17.04	15/120		Peking, China	
17635	17.01	15/120		Peking, China	
17675	16.97	120/240		Peking, China	
**17685	16.96		GIC37	Rugby, Gt. Britain	
17690	16.96	50/10		Cairo, Un. Arab. Rep.	
17695	16.95	15/100		BBC, London, Gt. Britain	
17700	16.95	15/100		BBC, London, Gt. Britain	
				17700–17900 kc/s – 16 metre band	
17705	16.94		VUD	AIR, Delhi, India	
	19.94	35/50/100		Tangier (VOA), Morocco	
	19.34	50		R. Tunis, Tunisia	
17710	16.94	110	WLWO	Bethany, USA	
	16.94	20/50	WRUL	R. Boston, USA	
	16.94	20/50		R. Liberty, Germany	
	16.94	10/50/100		R. Australia, Australia	
17715	16.93	15/100		BBC, London, Gt. Britain	
17720	16.93		VUD	AIR, Delhi, India	
	16.93	20	TAD	R. Ankara, Turkey	
	16.93	120/240		Peking, China	
	16.93	20/50		R. Liberty, Germany	
	16.93	50		R. Brazzaville, Congo	
	16.93	0.5/50	BED39	Taipei (BCC), Taiwan	
17725	16.93	10/100		R. Free Europe, Germany	
	16.93			AIR, Delhi, India	
	16.93	1	ZYR232	R. Universitaria, Brazil	
17730	16.92	15/100		BBC, London, Gt. Britain	
	16.92		VUD	AIR, Delhi, India	
	16.92	20/50		R. Liberty, Germany	
	16.92	120/240		Peking, China	
17735	16.92	5/25/50/100		Vatican City, Vatican State	
	16.92	50/200	KCBR	Delano, USA	
	16.92			AIR, Delhi, India	
	16.92	10/100		R. Free Europe, Germany	
17740	16.91	15/100		BBC, London, Gt. Britain	

kc/s	m	kW	Call	Stations and countries	Rem.
17740	16.91	50/60/100		R. Roma, Italy	
17745	16.91	15/100		BBC, London, Gt. Britain	
	16.91	20/50		R. Liberty, Germany	
	16.91	120/240		Peking, China	
	16.91	50		Komsomolsk, USSR	
	16.91	10/50		Karachi, Pakistan	
	16.91	7.5/50		Manila (VOA), Philipp.	
17750	16.90	10/50		Karachi, Pakistan	
	16.90	20/50	WRUL	R. Boston, USA	
	16.90	35/50/100		Tangier (VOA), Morocco	
17755	16.90	7.5/100		BBC, Singapore, Malaya	
	16.90	20/50		R. Liberty, Germany	
	16.90	100		Praha, Czechoslovakia	
	16.90	0.3	OEI7i	Wien, Austria	
	16.90	10/100	LKW	R. Norway, Norway	
17755	16.90	15/100		BBC, London, Gt. Britain	
17760	16.89		VUD	AIR, Delhi, India	
	16.89	25/100	WGEO	Schenectady, USA	
17765	16.89	35/100		N. Luzon (VOA), Philipp.	
	16.89	0.3	OEI72	Wien, Austria	
	16.89	20/50		R. Liberty, Germany	
	16.89	120/240		Peking, China	
	16.89	10/100		Allouis, France	
17770	16.88	50/60/100		R. Roma, Italy	
	16.88	50/200	KCBR	Delano, USA	
	16.88	10/100		R. Free Europe, Germany	
17775	16.88	50/100		R. Nederland, Holland	
	16.88	10		R. Addis Ababa, Ethiopia	
17780	16.87	5/7.5		R. Athens, Greece	
	16.87	15/120		Peking, China	
	16.87		VUD	AIR, Delhi, India	
	16.87	50	WBOU	Bound Brook, USA	
	16.87	35/100		N. Luzon (VOA), Philipp.	
17785	16.87	100	HER7	Schwarzenburg, Switzerland	
	16.87	20/50		R. Liberty, Germany	
	16.87	0.5/50	BED56	Taipei (BCC), Taiwan	
17790	16.86	10/50/100		R. Australia, Australia	
	16.86	15/100		BBC, London, Gt. Britain	
	16.86	7.5/100		BBC, Singapore, Malaya	
17795	16.86		VUD	AIR, Delhi, India	
	16.86	100		Budapest, Hungary	
	16.86	100	WLWO	Bethany, USA	
	16.86	10/100	JOA/B17	R. Japan, Japan	
	16.86	10	CR6RZ	R. Angola, Angola	
	16.86	50		R. Tunis, Tunisia	
17800	16.85	10/50/100		R. Australia, Australia	
	16.85	110	WLWO	Bethany, USA	
	16.85			AIR, Delhi, India	
	16.85	50/100		R. Nederland, Holland	
	16.85	15	OIX5	Pori, Finland	
	16.85	50/60/100		R. Roma, Italy	
	16.85	7.5/100		Warsaw, Poland	
	16.85	35		Colombo, Ceylon	
17805	16.85	10	DZI6	Call of the Orient, Philipp.	
	16.85	10/100		R. Free Europe, Germany	
	16.85		VUD	AIR, Delhi, India	
17810	16.84		VUD	AIR, Delhi, India	
	16.84	15/100		BBC, London, Gt. Britain	
	16.84	50/100		R. Nederland, Holland	
	16.84	120/240		Peking, China	
17815	16.84	20/100	DMQ17	Deutsche Welle, Germany	
	16.84		VUD	AIR, Delhi, India	
	16.84	50/200	KCBR	Delano, USA	
	16.84	0.5/50	BED46	Taipei (BCC), Taiwan	
17820	16.84	50	CKNC	R. Canada, Canada	
	16.84		VUD	AIR, Delhi, India	
	16.84	35		Colombo, Ceylon	
	16.84	100	TAV	R. Ankara, Turkey	
	16.84	7.5	ZL14	Wellington, New Zealand	
17825	16.83	10/100	LLN	R. Norway, Norway	
	16.83	50/100	JOA/B17	R. Japan, Japan	
17830	16.83		VUD	AIR, Delhi, India	
	16.83	50	WDSI	Brentwood, USA	
	16.83	35/100		N. Luzon (VOA), Philipp.	
	16.83	110	WLWO	Bethany, USA	
	16.83	35/50/100		Tangier (VOA), Morocco	
17835	16.82	100	CSA209	R. Nacional, Portugal	
	16.82	50		R. Goa, Goa	
	16.82	35/50/100		Tangier (VOA), Morocco	
	16.82	120/240		Peking, China	
	16.82	10/100		R. Free Europa, Germany	
17840	16.82	10/50/100		R. Australia, Australia	
	16.82	10/100		R. Free Europe, Germany	
	16.82	15/100		BBC, London, Gt. Britain	
	16.82	100		Hörby, Sweden	
	16.82	5/25/50/100		Vatican City, Vatican State	
	16.82	50/100		R. Nederland, Holland	
17845	16.81	20/100	DMQ17	Deutsche Welle, Germany	
	16.81	100		Hörby, Sweden	
	16.81	20	ORU5	Bruxelles, Belgium	
	16.81	20/50	WRUL	R. Boston, USA	
	16.81	35/50/100		Tangier (VOA), Morocco	
17850	16.81	10/100		Allouis, France	
	16.81		VUD	AIR, Delhi, India	
17855	16.80	10/100		R. Free Europe, Germany	
	16.80	20		Paradys, So. Africa	
	16.80	10/100	JOA/B17	R. Japan, Japan	
	16.80	35/100		Tangier (VOA), Morocco	
17860	16.80	15/100		BBC, London, Gt. Britain	
	16.80	5/25/50/100		Vatican City, Vatican State	
	16.80	120/240		Peking, China	
	16.80	10/50/100		R. Australia, Australia	
17860	16.80	100	ORU34	Bruxelles, Belgium	
17865	16.80	100	VUD	AIR, Delhi, India	
	16.80	20		Damascus, Syria	
	16.80	20/50		R. Liberty, Germany	
	16.79			Khabarovsk, USSR	
	16.79	50		Komsomolsk, USSR	
	16.79	10/50/100		R. Australia, Australia	
17870	16.79	15/100		BBC, London, Gt. Britain	
	16.79	7.5/100		BBC, Singapore, Malaya	
17875	16.79	20/100	DMQ17	Deutsche Welle, Germany	
	16.79	7.5		R. Dif. Educativa, Brazil	
	16.79	10/100	PRL2	R. Free Europe, Germany	
17880	16.78	10/100		R. Free Europe, Germany	
	16.78			AIR, Delhi, India	
17885	16.78	120/240		Peking, China	
	16.78	20/50	WRUL	R. Boston, USA	
17890	16.77	15/50		BBC, London, Gt. Britain	
	16.77	50	HLK42	Seoul, Korea	
	16.77	7.5/100		BBC, Singapore, Malaya	
	16.77	30	HCJB	Voz de los Andes, Ecuador	
	16.77	10		Dacca, Pakistan	
	16.77	0.5/50	BED40	Taipei (BCC), Taiwan	
17895	16.76	100	CSA66	R. Nacional, Portugal	
	16.76	50	HLK19	Seoul, Korea	
17900	16.76	15/240		Peking, China	
				17910–21450 kc/s	
17915	16.75	50/100		Cairo, Un. Arab. Rep.	
17920	16.74	50/100		Cairo, Un. Arab. Rep.	
18080	16.59	15/100		BBC, London, Gt. Britain	
19600	15.31	10		R. Metropolitana, Ecuador	
*20000	15.00	1	WWV	Lanham, USA	
				21450–51750 kc/s – 13 meter band	
21450	13.99	100		Praha, Czechoslovakia	
21455	13.98	35/50/100		Tangier (VOA), Morocco	
21460	13.98	20/50	WRUL	Boston, USA	
	13.98	50/200	KCBR	Delano, USA	
21465	13.98	50	WDSI	Brentwood, USA	
21470	13.97	15/100		BBC, London, Gt. Britain	
21475	13.97	10/50/100		R. Australia, Australia	
	13.97			Novosibirsk, USSR.	
21480	13.97	50/100		R. Nederland, Holland	
21485	13.96	110	WLWO	Bethany, USA	
	13.96	15/100		BBC, London, Gt. Britain	
	13.96	10/100		R. Free Europe, Germany	
	13.96	5/7.5		R. Athens, Greece	
	13.96	7.5/100		BBC, Singapore, Malaya	
21490	13.96	15/100		BBC, London, Gt. Britain	
21495	13.96	100	CSA67	R. Nacional, Portugal	
	13.96	20		Paradys, So. Africa	
21500	13.95	50	WDSI	Brentwood, USA	
	13.95	5/25/50/100		Vatican City, Vatican State	
	13.95	50		R. Brazzaville, Congo	
21505	13.95	50	WDSI	Wayne, USA	
21510	13.94	100	ORU4	Bruxelles, Belgium	
21515	13.94	5/25/50/100		Vatican City, Vatican State	
	13.94	2	DZI8	Call of the Orient, Philipp.	
21520	13.94	100	HER8	Schwarzenburg, Switzerland	
	13.94	0.4		La Voix Evangelique, Haiti	
21525	13.94			Vologda, USSR	
21530	13.93	15/100		BBC, London, Gt. Britain	
21535	13.93	0.5		ELWA, Liberia	
21540	13.93	10/50/100		R. Australia, Australia	
	13.93	0.3	OEI80	Wien, Austria	
	13.93	50	WBOU	Bound Brook, USA	
21550	13.92	15/100		BBC, London, Gt. Britain	
	13.92	0.5/50	BED52	Taipei (BCC), Taiwan	
	13.92			Chita, USSR	
21560	13.91	50/60/100		R. Roma, Italy	
	13.91			AIR, Delhi, India	
	13.91	20		Damascus, Syria	
	13.91	35		N. Luzon (VOA), Philipp.	
21565	13.91	50/100		R. Nederland, Holland	

21565	13.91	5/7.5		R. Athens, Greece
21570	13.91	50	WBOU	Bound Brook, USA
	13.91		VUD	AIR, Delhi, India
21580	13.90	10/100		Allouis, France
	13.90			AIR, Delhi, India
21585	13.90	8/100		Munich (VOA), Germany
21590	13.90	10/50		Karachi, Pakistan
	13.90	10/50/100		R. Australia, Australia
	13.90	25/100	WGEO	Schenectady, USA
21600	13.89	50	CKRP	R. Canada, Canada
	13.89	10/100		R. Free Europe, Germany
	13.89	10/50/100		R. Australia, Australia
	13.89			Komsomolsk, USSR.
21605	13.89	100	HEI9	Schwarzenburg, Switzerland
	13.89		VUD	AIR, Delhi, India
21610	13.88	110	WLWO	Bethany, USA
	13.88	50/100	JOB21	R. Japan, Japan
21615	13.88	15/100		BBC, London, Gt. Britain
	13.88			AIR, Delhi, India
21620	13.87	10/100		R. Free Europe, Germany
	13.87	10/100		Allouis, France
	13.87		VUD	AIR, Delhi, India
	13.87			Kursk. USSR.
21630	13.87	15/100		BBC, London, Gt. Britain
	13.87			Khabarovsk, USSR
	13.87	10		Dacca, Pakistan
21640	13.86	15/100		BBC, London, Gt. Britain
	13.86	7.5/100		BBC, Singapore, Malaya
21650	13.86	20/100	DMQ21	Deutsche Welle, Germany
	13.86	15/100		BBC, London, Gt. Britain
	13.86		VUD	AIR, Delhi, India
	13.86	7.5/100		BBC, Singapore, Malaya
	13.86	50	WDSI	Wayne, USA
	13.86	100	VUB	AIR, Bombay, India
	13.86	7.5/100		BBC, Singapore, Malaya
21655	13.86	15/100		BBC, London, Gt. Britain
	13.86	7.5/100		BBC, Singapore, Malaya
	13.86	35/100		N. Luzon (VOA), Philipp.
21660	13.85	15/100		BBC, London, Gt. Britain
	13.85		VUD	AIR, Delhi, India
21665	13.84	10/100		R. Free Europe, Germany
	13.84	50/100		R. Nederland, Holland
21670	13.84	5	LLP	R. Norway, Norway
21675	13.84	15/100		BBC, London, Gt. Britain
	13.84	50/100		R. Nederland, Holland
21680	13.84	10/50/100		R. Australia, Australia
21685	13.83	20/100	VUD	AIR, Delhi, India
21685	13.83	10		Dacca, Pakistan
21690	13.83	50	WDSI	Brentwood, USA
	13.83		VUD	AIR, Delhi, India
21700	13.83	100	CSA49	R. Nacional, Portugal
	13.83	20/100	DMQ21	Deutsche Welle, Germany
	13.83		VUD	AIR, Delhi, India
21705	13.82	25/50/100		Tangier (VOA), Morocco
	13.82	100	VUB	AIR, Bombay, India
21710	13.82	15/100		BBC, London, Gt. Britain
	13.82		VUD	AIR, Delhi, India
21715	13.82	50/100		R. Nederland, Holland
21720	13.81	7.5/100		BBC, Singapore, Malaya
	13.81	15/100		BBC, London, Gt. Britain
	13.81	10/100		R. Free Europe, Germany
	13.81	20	ORU5	Wavre, Belgium
21730	13.81	5	LLQ	R. Norway, Norway
21735	13.80	20/100	DMQ21	Deutsche Welle, Germany
	13.80	0.5/50	BED44	Chiayi (BCC), Taiwan
	13.80	110	WLWO	Bethany, USA
21740	13.80	15/100		BBC, London, Gt. Britain
	13.80	5/25/50/100		Vatican City, Vatican State
	13.80	50/200	KCBR	Delano, USA
	13.80	7.5/100		BBC, Singapore, Malaya
	13.80	10/100		R. Free Europe, Germany
21745	13.80	10/100		
21845	13.73	20	ORU5	Wavre, Belgium
*25000	12.00	0.1	WWV	Lanham, USA
				25600–26100 kc/s (11 m.b.)
25610	11.71	50/100		R. Nederland, Holland
25615	11.71	20	OEI90	Fleckendorf, Austria
25630	11.70	50/200	KCBR	Delano, USA
25650	11.70	100		BBC, London, Gt. Britain
	11.70	7.5/100		BBC, Singapore, Malaya
25670	11.69	100		BBC, London, Gt. Britain
25720	11.66	100		BBC, London, Gt. Britain
25735	11.66	10	VLY25	R. Australia, Australia
25750	11.65	100		BBC, London, Gt. Britain
25840	11.61	100		BBC, London, Gt. Britain
25850	11.60	100		BBC, London, Gt. Britain
25880	11.60	35/50/100		Tangier (VOA), Morocco
25900	11.58	10/100	LLA	R. Norway, Norway
25920	11.57	100		BBC, London, Gt. Britain
25945	11.56	0.3	OEI91	Wien, Austria
25950	11.56	50	WBOU	Bound Brook, USA
26040	11.51	50/100		R. Nederland, Holland
	11.51	50	WBOU	Bound Brook, USA
	11.51	100		BBC, London, Gt. Britain
26080	11.50	100		BBC, London, Gt. Britain



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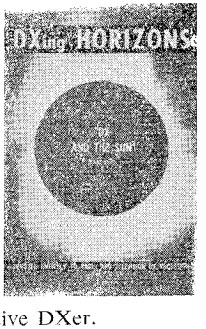

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ADEN (page 121): **Cable:** Informat.
Home Sce.: 03.30–05.30 (Fri. & Sun. 10.00), 12.00–22.00. **N.:** 06.15, 08.00, 16.00, 18.00, 20.00, 22.00.

CUBA (page 161): **Short Waves (Call:** Co.– – –) – add.
a) CW 5045 kc 1 kW: 11.00–04.00, 21470 kc 1 kW: 10.30–05.00
b) CY 6175 1 kW: 12.00–05.00 11740 kc 1 kW: 12.00–14.30 16.00–05.00, 21620 kc 1 kW: 13.00–05.00. – a) **Circuito Nacional Cubano,** O. No. 216, Vedado, Habana. b) **R. Siboney,** Escobar 452, Habana.

DOMINICAN REPUBLIC (page 162)
21) HI2U 6210 kc/s 20 kW: 01.00–10.00, HI3U 9485 kc 50 kW: 24 h. HI2U 15062 kc 20 kW: 10.15–00.45.

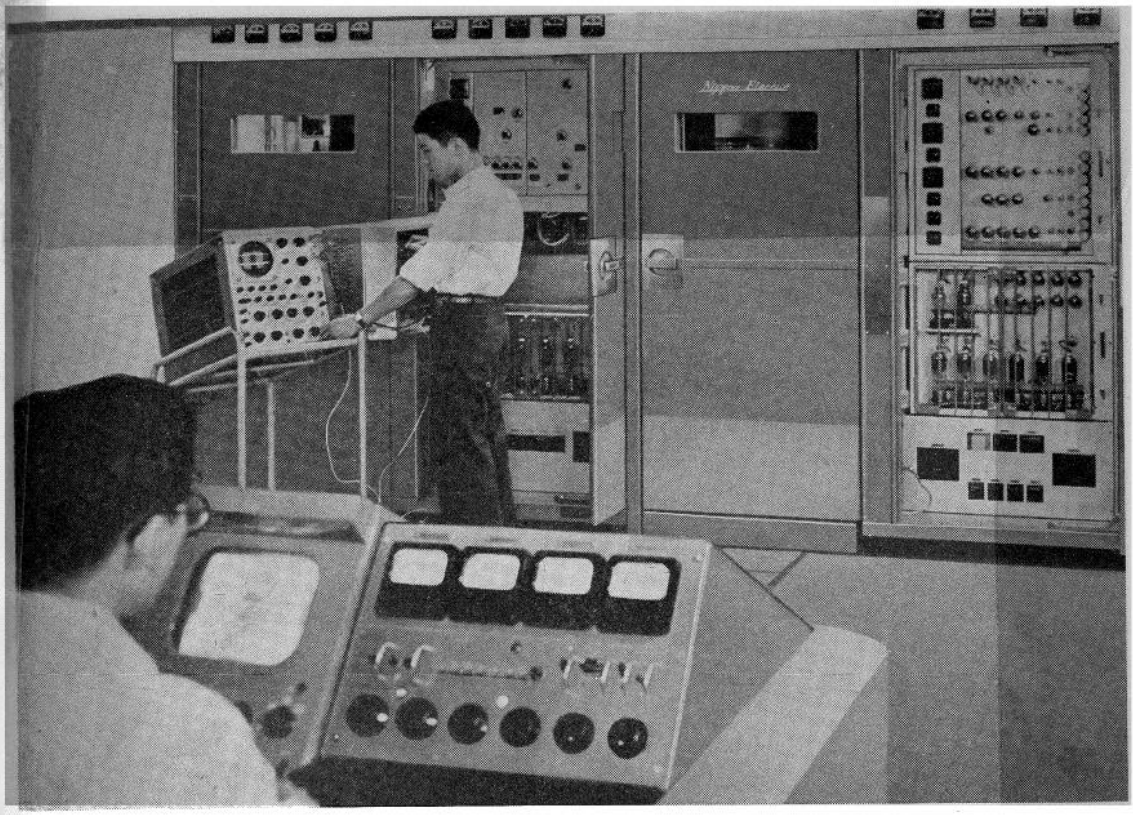
INDIA (page 130): **External Services** (details not mentioned remain unchanged): **General Sce.:** To. So. Ea. Asia: 23.15–00.15 7125/9530/11875/15290 kc, 00.15–01.15 11875/15290/17705 kc, 11.30–12.30 15380 kc. To Africa/Aden/Mauritius: 17.45–18.00 9680/11710/15240 kc. **Eastern Sce.:** To Burma: 00.40–01.15 11950/15310/ kc, 11.15–12.15 17705/21690 kc. To No. Ea. Asia: 10.00–11.00 15105/17725/21510 kc. To Au/N.Z.: 10.00–11.00 17705/21690 kc.
To Bhutan, Sikkim: 12.30–13.15 11780/15290 kc. To Indonesia: 22.45–23.00 9530/11710 kc, 12.15–13.15 17800/21690 kc. To Ea. Asia: 11.15–11.30 17740/21580 kc. To So. Ea. Asia: 00.30–00.40 11950/15310 kc, 13.30–14.30 17705/21560 kc. **Western Sce.:** To Iran/Afghanistan 03.45–04.00 15190/17830 kc. To We. Africa: 19.45–20.45 11790/15240 kc.

MONACO (page 93). (**Missionary. Formerly "Voice of Tanger"**) **L.P.:** Pres.: Rev. P. Freed. Dir.: R. Freed. – **ADDR.:** Beatenberg Switzerland, and B. P. 141, Monte Carlo. – **Experimental transmissions** on 7215 kc 41.58 m 100 kW. **D.:** 06.00–07.00, 17.30–23.00. English 21.00–23.00. German 20.00–20.30. Regular prgrs. and frequencies under preparation. – **ANN.:** "This is Transworld Radio" or "You are listening to Transworld-Radio". – **V.** by letter and prgr. schedule.

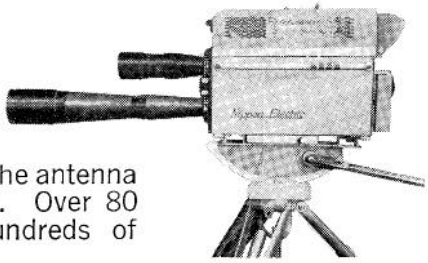
PORTUGAL (page 95): **Overseas Sce.**
13.15–14.30 III 15380/17895 kc, 14.30–17.00 IX 17895/21700 kc, 19.30–23.45 IX 15380 kc, 21.45–02.00 IX 11840 kc, 19.30–02.00 IX 9635 kc, 00.00–04.00 X 11840 kc, 00.45–04.00 9740 kc, 02.00–04.00 XI 6025 kc.

TAIWAN (page 129): **BCC – English:**
01.30–02.00 No. Am./Hawaii 6095/11725/15235/17785 kc 10.05–10.50 FE/Pacific 6095/15235/17785 kc, 12.30–13.30 So. Ea. Asia 6095/7130/9660/9720/15235 kc.

WORLD CHARTS: East (pag. 125): Correct time for India is GMT + 5½ h.

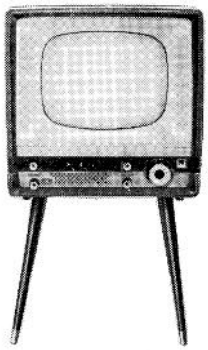


NEC HAS EVERYTHING FOR TV BROADCAST



From image orthicon camera chain right through to the antenna —NEC manufactures matched TV station equipment. Over 80 installations, from 1 kw to 50 kw, have logged hundreds of thousands of hours of trouble-free operation.

Wave characteristics meet the requirements of all radio regulatory groups. The wide band characteristic, good linearity and transient response give picture reception unsurpassed by any other equipment.



You can take advantage of this rich video experience by contacting NEC at the early planning stage. NEC's one-contract turnkey service can mean a considerable saving in time and money. Write for brochure describing a typical NEC 10/50 kw TV broadcasting system.

NEC *Nippon Electric Company Limited.* Tokyo, Japan

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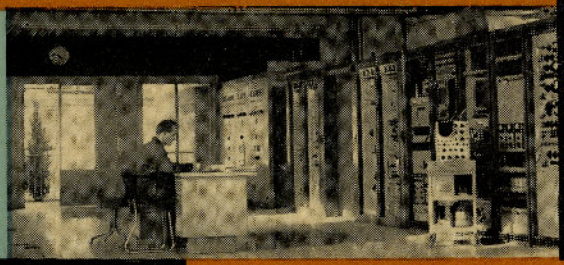
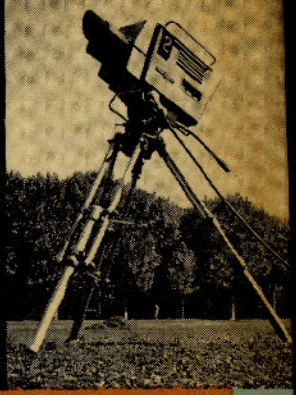
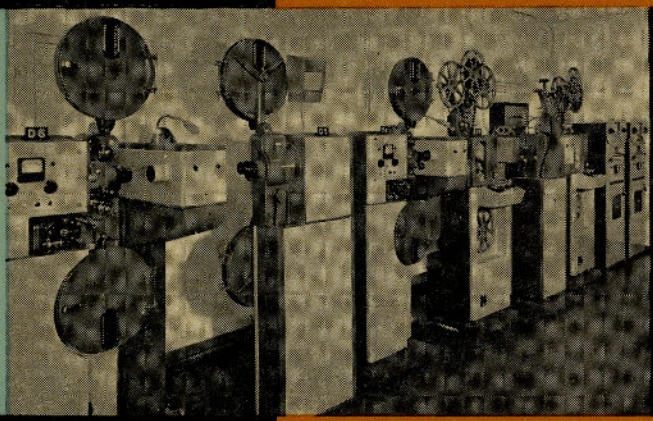
RADIODIFFUSION

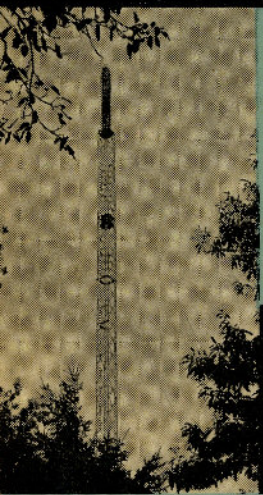


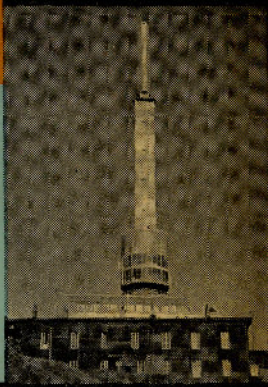


TÉLÉCOMMUNICATIONS



TÉLÉVISION





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